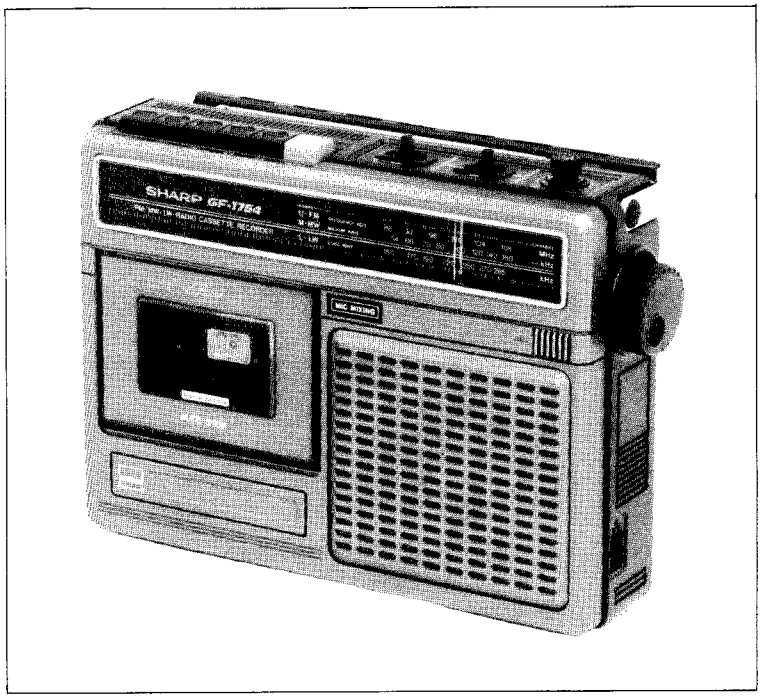
SHARP Service Manual



Cassette Tape Recorder
with Built-in Radio

MODEL
GF-1754H
GF-1754E

"In the interests of user-safety the set should be restored to its original condition and only parts identical to those specified be used."

SPECIFICATIONS

GENERAL

Type:	Portable monophonic cassette tape recorder with FM/MW/LW band radio
Power source:	a.c. 110/220V, 50/60Hz (GF-1754H) A.C. 240 Volt, 50/60Hz (GF-1754E) d.c. 6V (four UM/SUM-1 batteries) (GF-1754H) D.C. 6V (four HP-2) (GF-1754E)
Speaker:	4" (10 cm) P.D.S., 4 ohms impedance
Output power:	RMS 1,000 mW (DIN 45 324, DC operation) (GF-1754H) Maximum 1,500 mW RMS 1,000 mW (10% Distortion) (GF-1754E)
Semiconductors:	9-Transistor, 1-IC 10-Diode
Dimensions:	Width: 280 mm (11-1/32") Depth: 84 mm (3-5/16") Height: 205 mm (8-3/32")
Weight:	2.1 Kg (4.63 lbs.) (without batteries)
Input terminals:	Microphone jack Record/Playback socket (5 pin, DIN)
Output terminals:	External speaker jack (4 ohms impedance)
Other terminals:	Mains power supply socket

TAPE RECORDER SECTION

Type:	Half track monophonic cassette tape recorder
Tape:	Philips type compact cassette tape
Tape speed:	4.8 cm/sec (1-7/8 ips)
Frequency response:	80 — 10,000 Hz
Recording system:	DC bias
Erasing system:	DC magnetic
Fast forward time:	192 sec. (C-60 tape)
Rewind time:	153 sec. (C-60 tape)
Wow and flutter:	0.2% WRMS
Signal to noise ratio:	38 dB

RADIO SECTION

Frequency range:	LW 150 ~ 285 kHz MW 520 ~ 1,620 kHz FM 87.6 ~ 108 MHz
Intermediate frequency:	LW/MW 455 kHz FM 10.7 MHz

SHARP CORPORATION OSAKA, JAPAN

PARTS IDENTIFICATION

(Refer to Figure 2–1 and Figure 2–2)

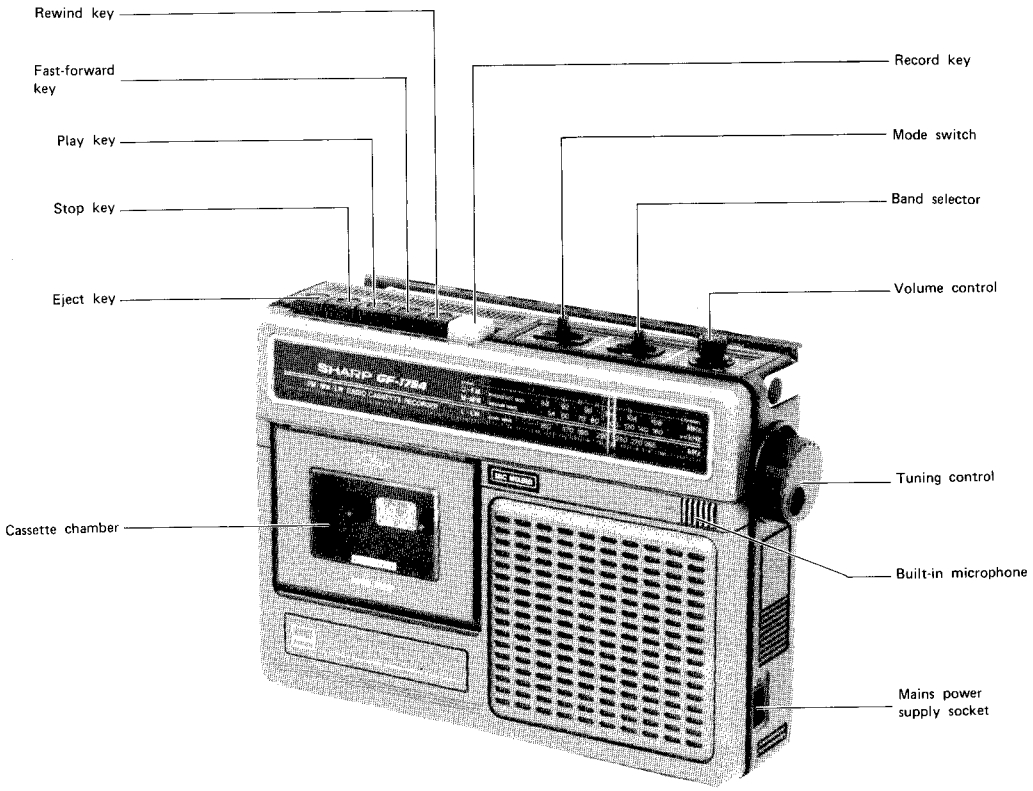


Figure 2–1

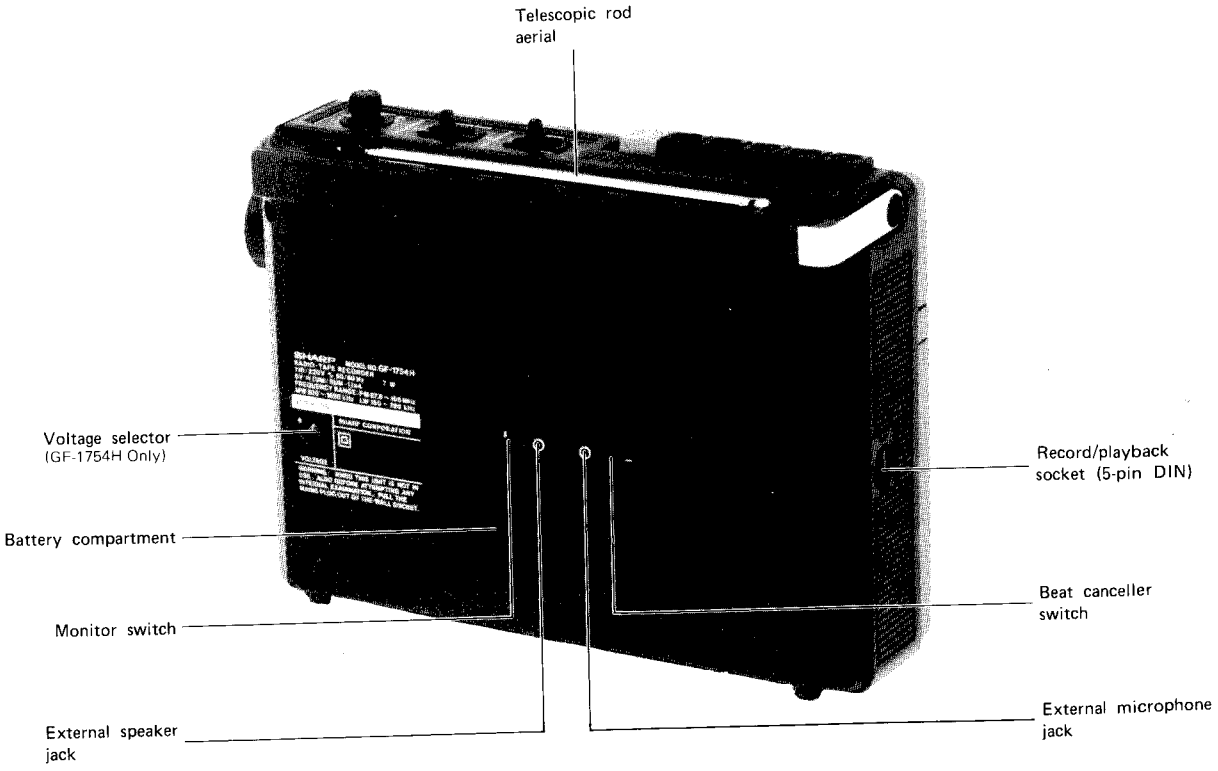


Figure 2–2

VOLTAGE SELECTION (Refer to Figure 3–1) (GF-1754H)
Check the preset voltage before connecting the mains plug to a mains outlet. If the setting is different from your local supply mains voltage, the selector must be re-set as follows. Rotate the voltage selector by using a screwdriver so that your local voltage number can be seen.

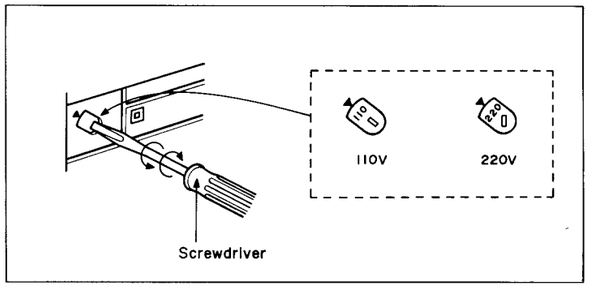


Figure 3–1

MAINS OPERATION (Refer to Figure 3–2) (GF-1754H)
Insert the mains plug into a wall outlet (110V or 220V) and the other end plug into mains supply socket of this recorder. The power source will then be changed from batteries to mains.
Warning: When this unit is not in use, also before attempting any internal examination, pull the mains plug out of the wall socket.

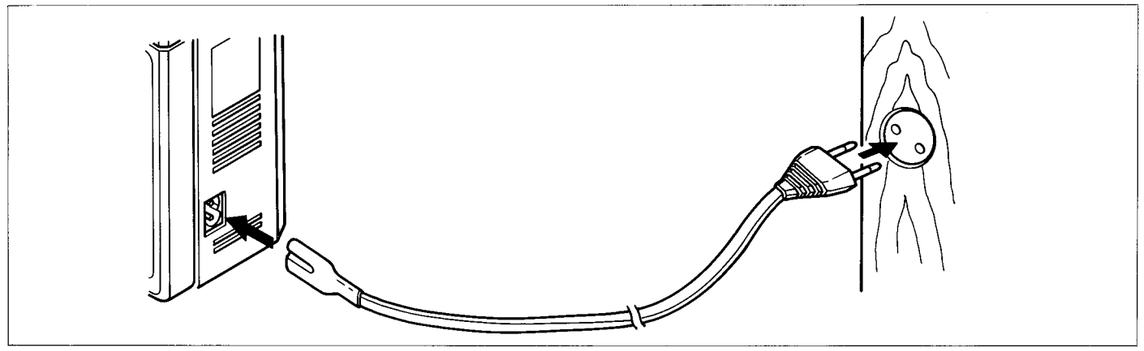


Figure 3–2

MAINS OPERATION (Refer to Figure 3–3) (GF-1754E)
1) IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
BLUE . . . . . NEUTRAL
BROWN . . . . . LIVE
You are advised to fit a 13 amp. 3 pin fused plug containing a 3 amp. fuse.
As the colours of the wires may not correspond with markings identifying the terminals in the plug proceed as follows: The wire which is coloured BLUE must be connected to the terminal marked with the letter N or coloured Black. The wire which is coloured BROWN must be connected to the terminal marked with the letter L or coloured Red. Ensure that the terminal screws have been properly tightened and clamp the flex securely with the cord grip.
2) Insert the connector at the other end of the lead into the socket at the side of the set and the plug you have just fitted into a convenient mains outlet. The set is now ready for use.

NOTES: 1) Inserting the mains connector into the side of the set automatically disconnects the batteries.
2) To conserve batteries you are advised to use the mains supply whenever possible.
3) When the unit is used on batteries, remove the mains plug from the wall socket.

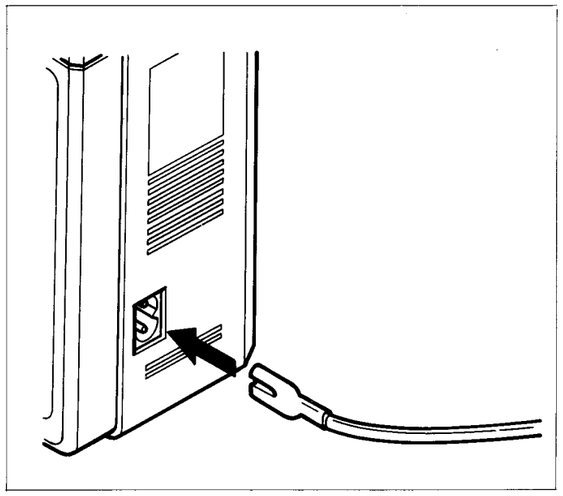


Figure 3–3

DISASSEMBLY

CABINET BOTTOM REMOVAL (Refer to Figure 4–1)
1. Take out the cassette from the cassette compartment.
2. Remove the battery compartment cover and take out four (4) batteries.
3. Remove the tuning and volume control knobs.
4. Remove five (5) screws retaining the cabinet back and lightly open it.
5. Disconnect the antenna lead wire and from the battery terminals.
6. Then the cabinet back can be removed.

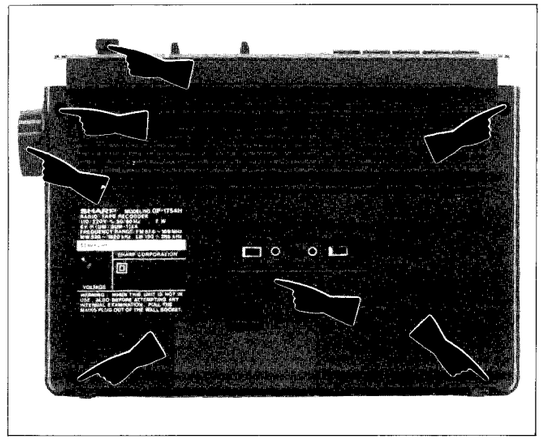


Figure 4–1

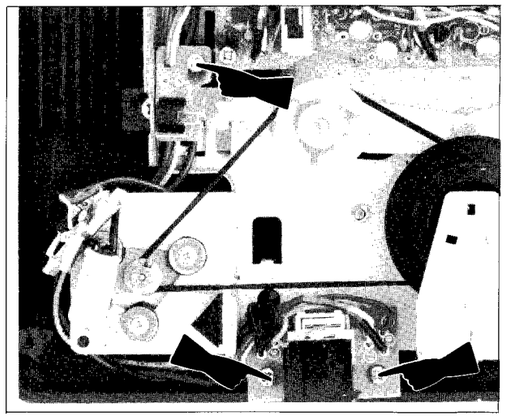


Figure 4–3

MECHANISM BLOCK REMOVAL
(Refer to Figure 4–4)
1. Remove three (3) screws retaining the mechanism block.

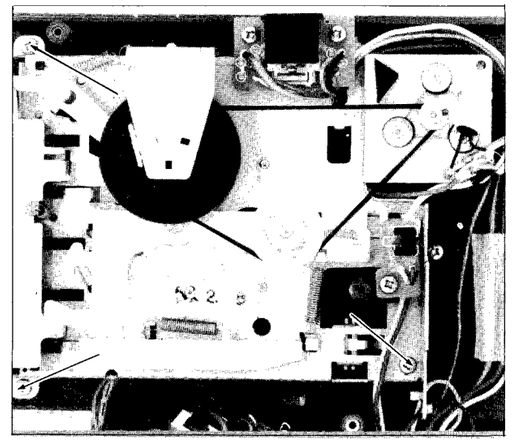


Figure 4–4

PRINTED WIRING BOARD REMOVAL
(Refer to Figure 4–2 and 4–3)
1. Remove two (2) screws retaining the printed wiring board. (Figure 4–2)
2. Disconnect the speaker lead wire. (Figure 4–2)
3. Remove the main switch P.W. Board by removing the retaining screw. (Figure 4–3)
4. Remove the Record/Playback socket P.W. Board by removing two (2) retaining screws. (Figure 4–3)

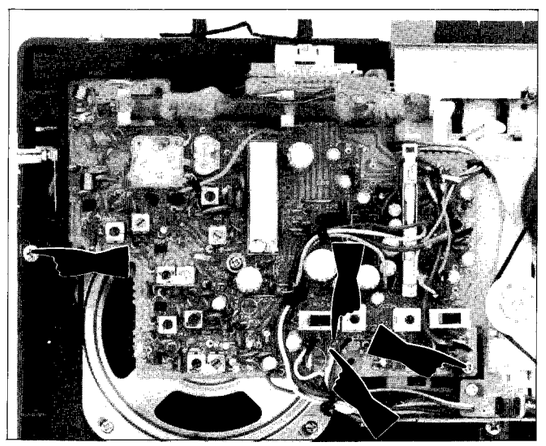
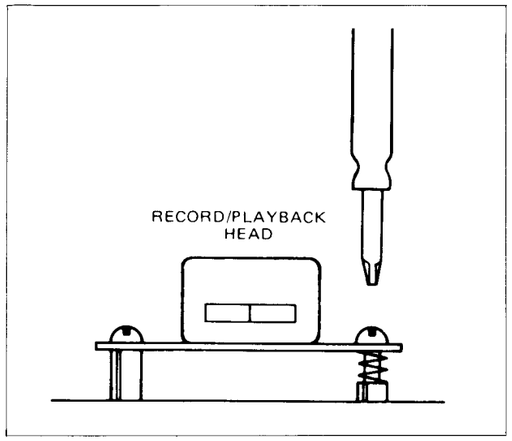


Figure 4–2

MECHANICAL ADJUSTMENT

RECORD/PLAYBACK HEAD AZIMUTH ADJUSTMENT
(Refer to Figure 5–1)

1. Playback a standard tape recorded with 6.3kHz signal on the tape recorder.
2. Connect an 8 ohm (2W, 5%) dummy load resistor to EARPHONE jack and connect V.T.V.M. across the load.
3. Adjust the adjusting screw so that the playback output voltage of the recorded tape becomes maximum.



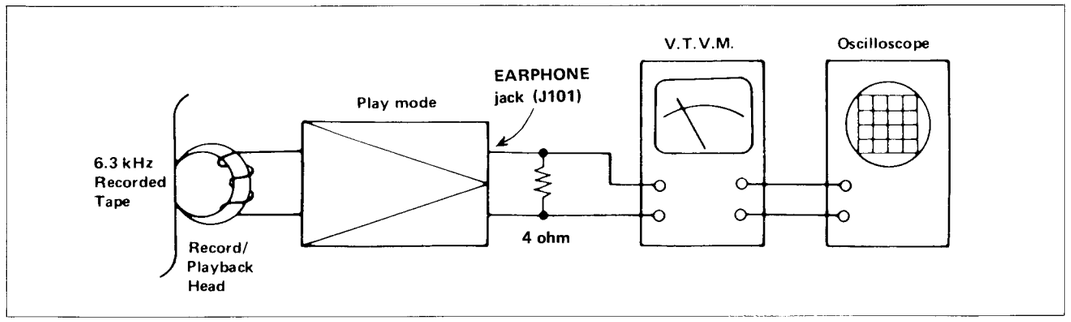


Figure 5–1

PRESSURE ROLLER PRESSURE ADJUSTMENT
(Refer to Figure 5–2)

1. With power supply turned on, push the point A with use of tension gauge to make the pressure roller apart from the capstan shaft. Then, gradually release the tension gauge and read its value when the pressure roller stops to rotate.
2. It is normal when the tension gauge reads 370 grams – 470 grams. If the above value is not satisfied, adjust the pressure roller lever spring.

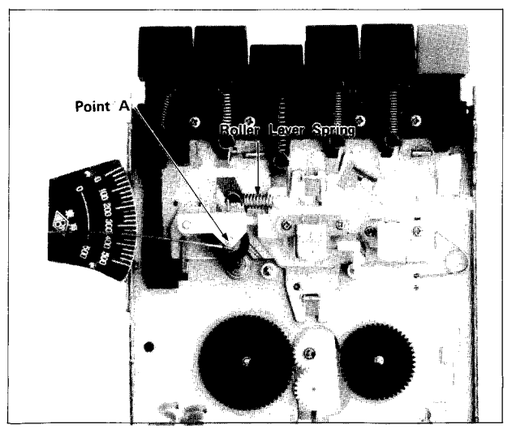


Figure 5–2

TORQUE CHECK (Refer to Figure 6–1)

1. Set the torque measuring reel to the turntable (to the take-up side at play or fast forward mode and to the supply side at rewind mode).
2. Then, rotate the reel in the same direction as for turntable and read the torque value when the pointer is stabilized.

Mode	Torque Value
Play	40 – 60 gr.cm
Fast Forward	40 – 60 gr.cm
Rewind	40 – 60 gr.cm

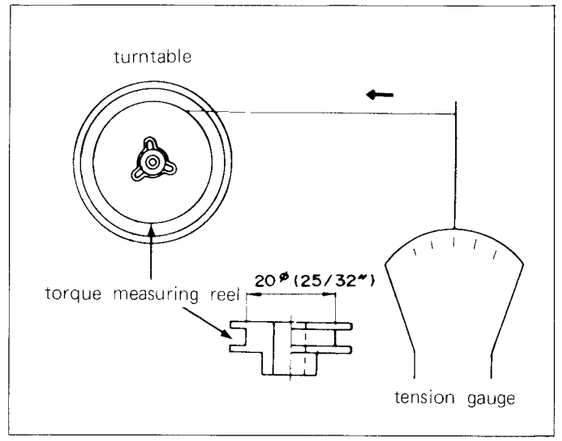


Figure 6–1

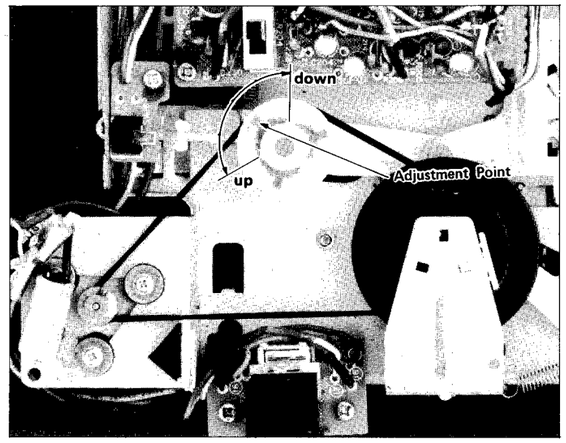


Figure 6–2

2 ~ 3 gr·cm by one step (Figure 6–2)

AUTO STOP ADJUSTMENT
(Refer to Figure 6–3)

Make sure that the auto stop mechanism acts rightly at the tape end.
If not, adjust the auto stop lever stroke as indicated right.

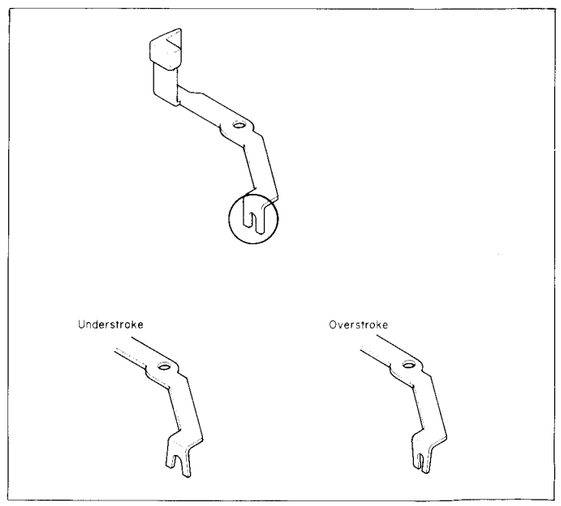


Figure 6–3

FLYWHEEL THRUST CLEARANCE ADJUSTMENT

In Figure 7–1 and 7–2 adjust the setting position of the thrust adjusting board to make thrust adjusting board flywheel thrust clearance 0.1 ~ 0.3 mm.

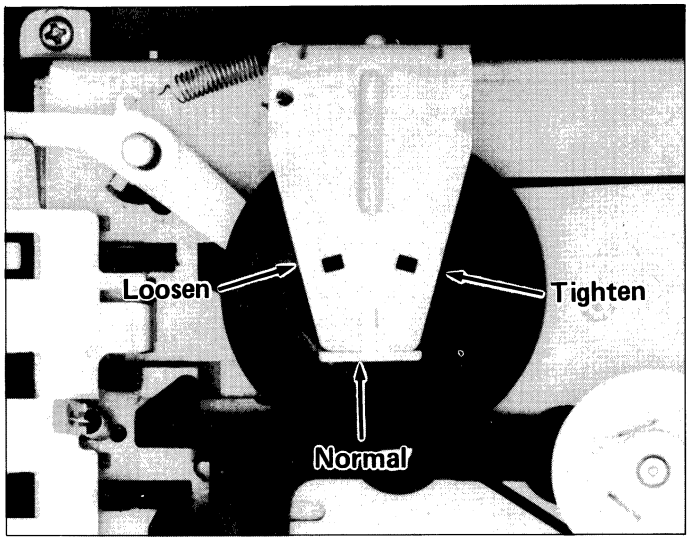


Figure 7–1

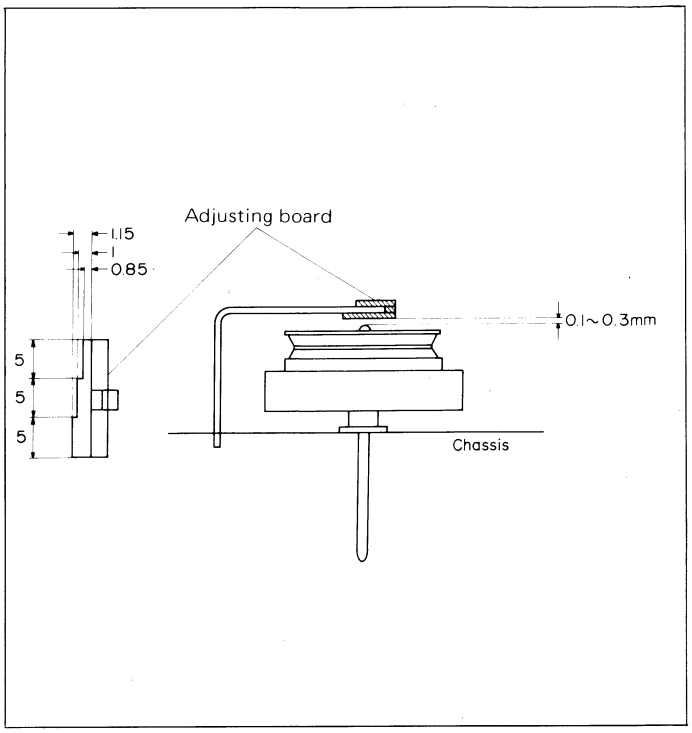


Figure 7–2

MAIN SWITCH POSITION ADJUSTMENT

(Refer to Figure 7–3)

While the unit in stop mode, adjust the main switch position as illustrated in Figure 7–3. After finished adjustment, check the main switch operates normally.

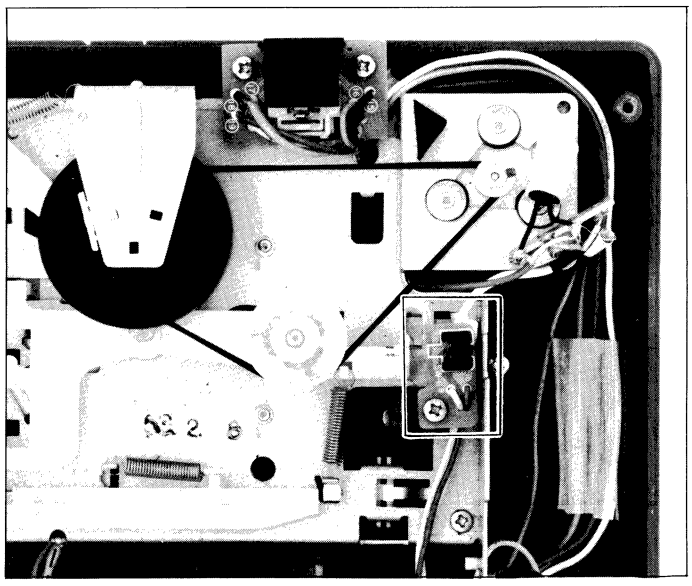


Figure 7–3

ELECTRICAL CHECK

PLAYBACK SENSITIVITY CHECK (Refer to Figure 8–1)

1. Connect an 4 ohm (2W, 5%) dummy load resistor to external speaker jack J101 and connect V.T.V.M. across the load.
2. Set the mode switch (SW3) to "TAPE" position.
3. Insert the test tape (MTT – 112 SP, 333 Hz, –20 dB recorded).
4. Place the unit in play mode with the volume control at maximum.
5. If the playback sensitivity is normal, the reading on the V.T.V.M. should be approximately 1V.

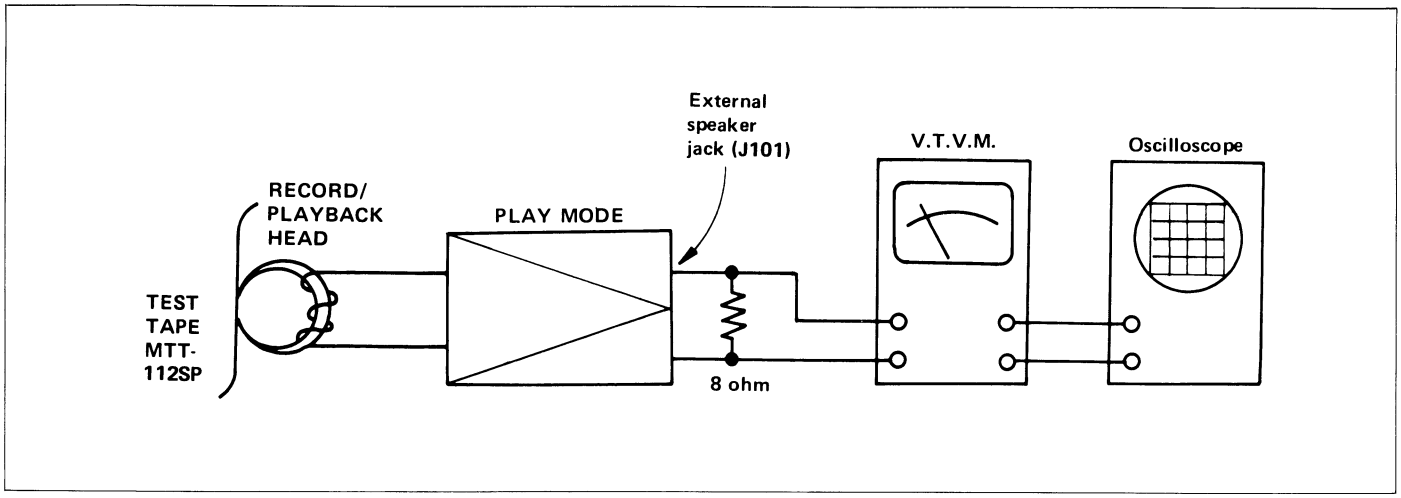


Figure 8–1

RECORD AMPLIFIER SENSITIVITY CHECK (Refer to Figure 8–2)

1. Connect an 4 ohm (2W, 5%) dummy load resistor to external speaker jack and connect V.T.V.M. across the load.
2. Set the mode switch (SW3) to "TAPE" position.
3. Insert the tape.
4. Connect the signal generator for 1 kHz, –60 dB (0 dB : 1V) to External microphone jack (J102).
5. If the record sensitivity is normal, the reading on the V.T.V.M. should be approximately 3 mV ± 2 dB.

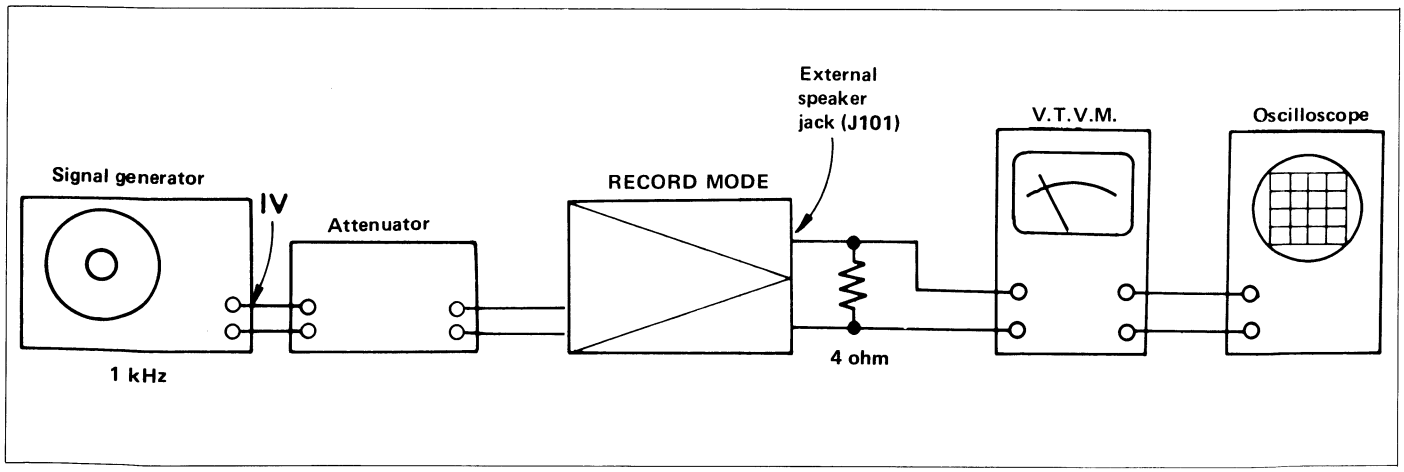


Figure 8–2

ADJUSTMENT OF BIAS CURRENT AND CHECK OF BIAS OSCILLATION FREQUENCY OF RECORD AMPLIFIER

(Refer to Figure 9–1)

1. Connect V.T.V.M. to the resistor (R201) located on the printed wiring board.
2. Set the mode switch (SW3) to "TAPE".
3. Place the unit in RECORD mode.
4. Check the record oscillator bias frequency is 50 ± 3 kHz.
5. Adjustment the resistors (R224, R225, R226) so that the V.T.V.M. reads 60 ± 5 mV.

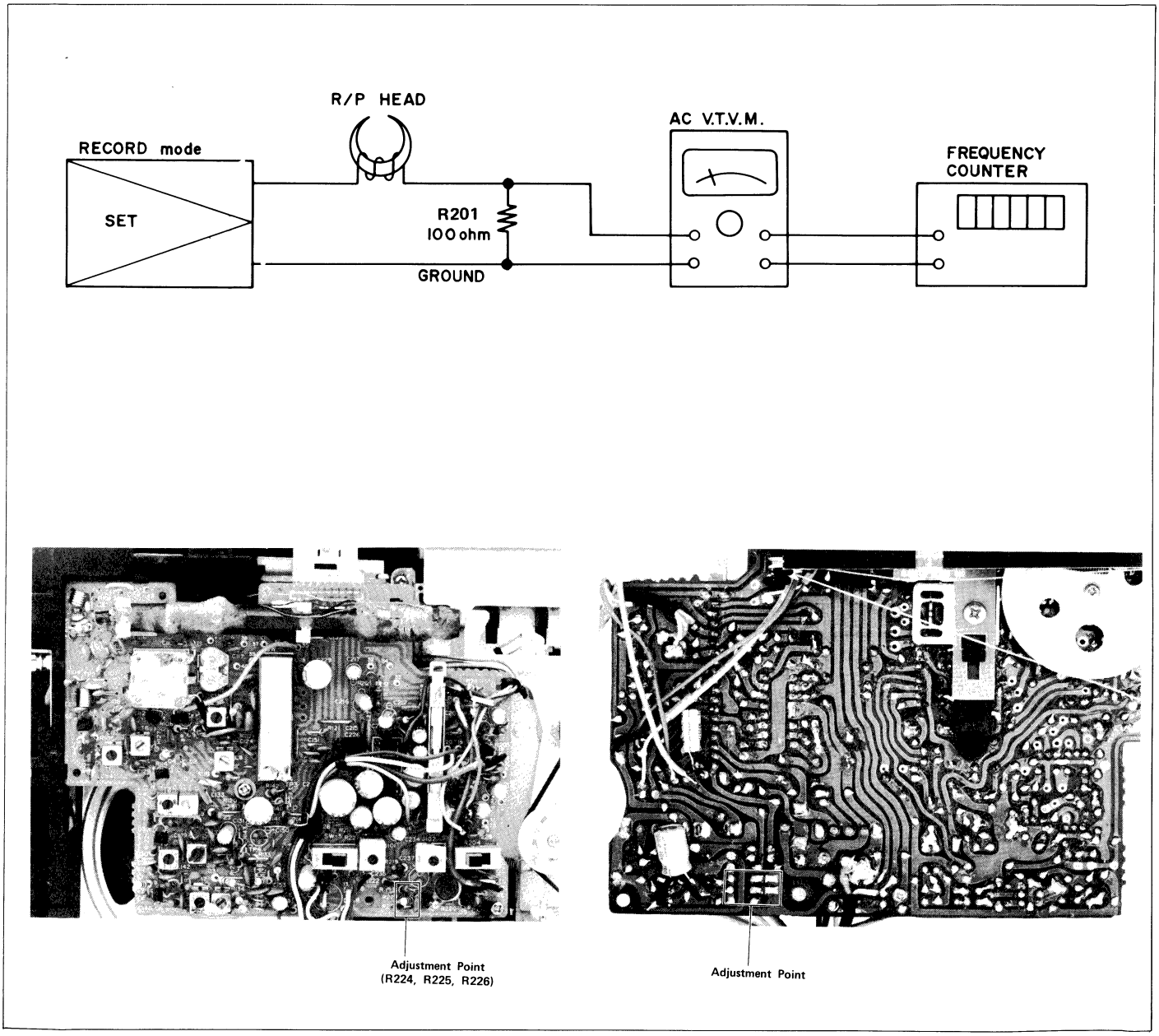


Figure 9–1

DIAL CORD STRINGING

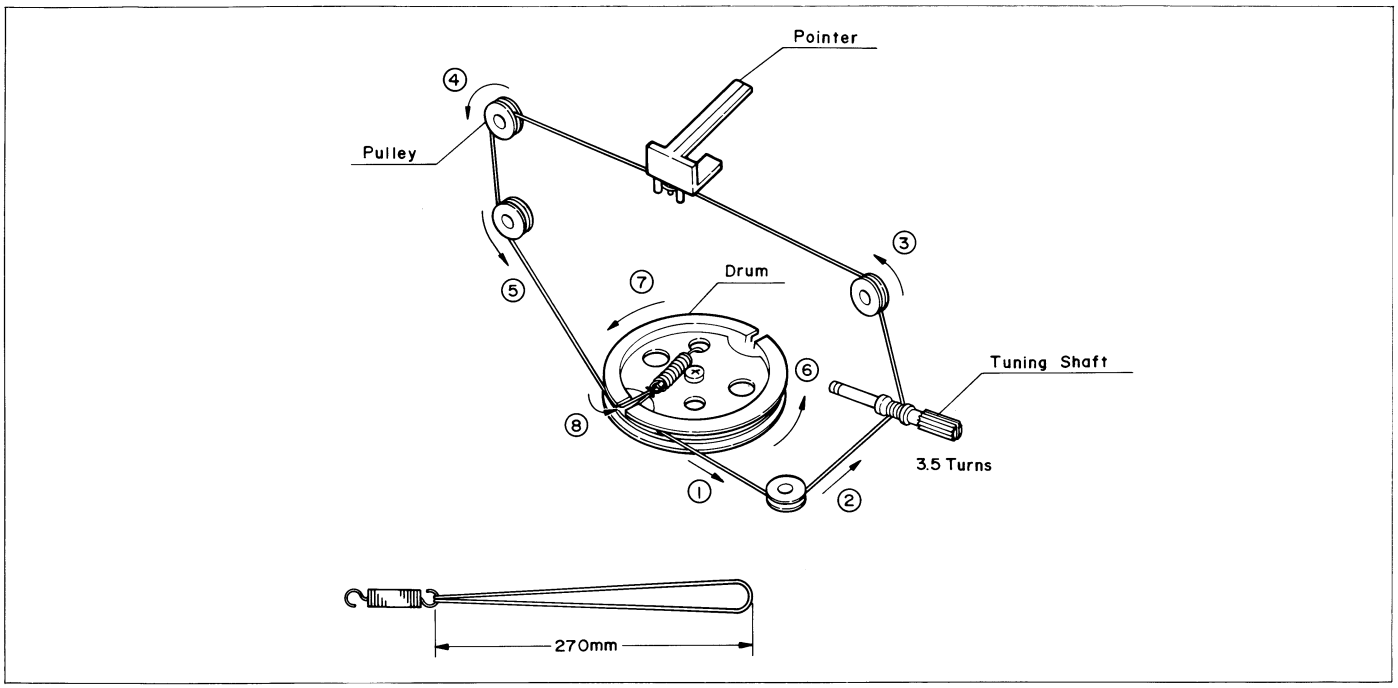


Figure 10–1

ALIGNMENT POINTS

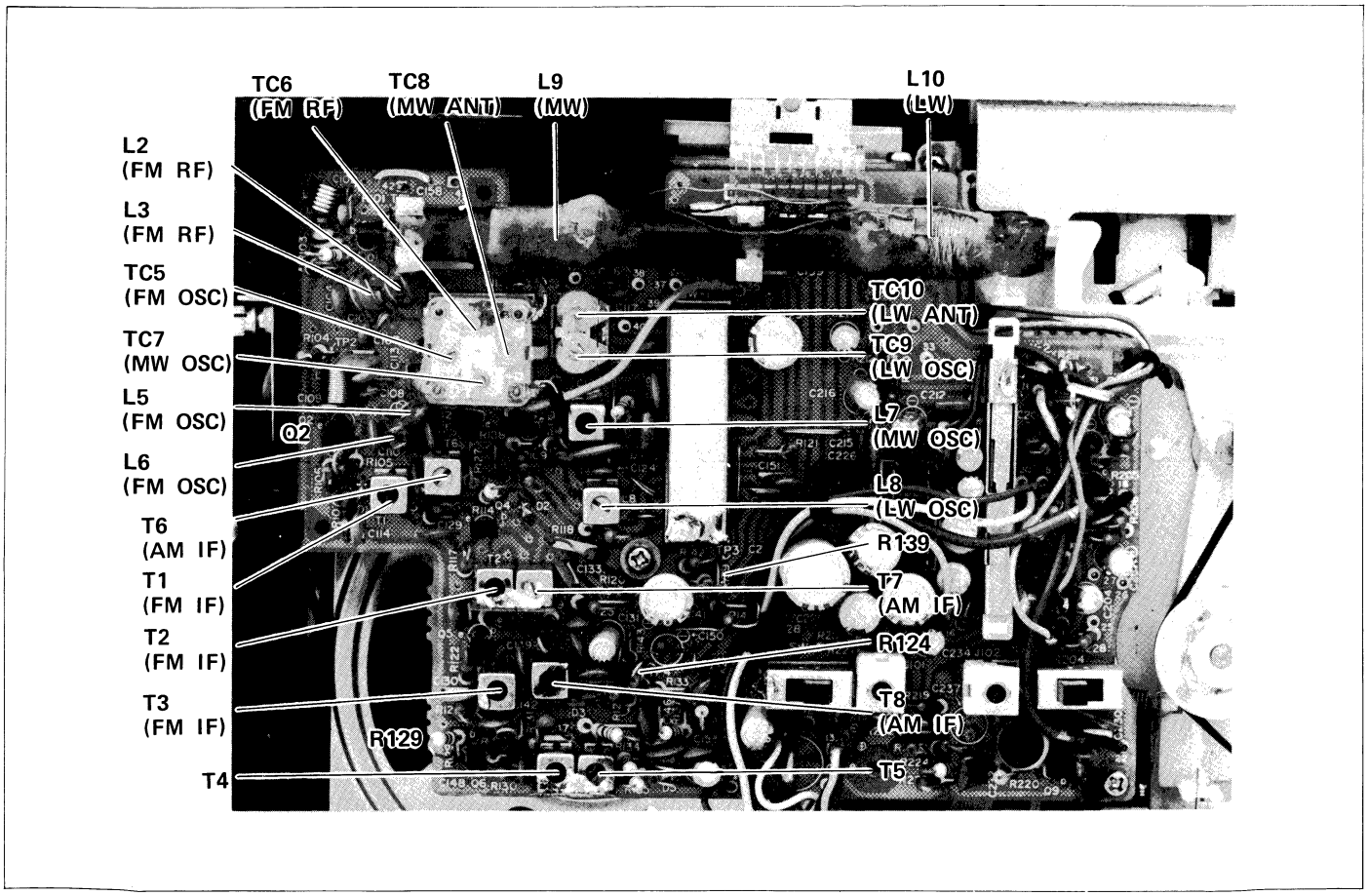


Figure 10–2

GENERAL ALIGNMENT INSTRUCTIONS

Should it become necessary at anytime to check the alignment of this receiver, proceed as follows;
1) Connect an output meter across the speaker voice coil lugs.
2) Set the volume control at maximum.
3) Attenuate the signals from the generator enough to swing the most sensitive range of the output meter.
4) Use a non-metallic alignment tool.
5) Repeat adjustments to insure good results.

AM ALIGNMENT CHART

STEP	BAND	TEST STAGE	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
			CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	MW	IF	Connect signal generator through a 10k ohm resistor to the antenna tuning capacitor. Ground lead to the receiver chassis.	455 kHz. (400 Hz, 30%, AM modulated.)	High end of dial (minimum capacity)	Adjust for maximum output on speaker voice coil lugs.	T6 T7 T8
2	MW	Band Coverage	Use radiation loop. Loop of several turns of wire, or place generator lead close to receiver for adequate signal pickup. Connect generator output to one end of this wire.	Exactly 510 kHz. (400 Hz, 30%, AM modulated.)	Low end of dial (maximum capacity)	Same as step 1.	Adjust the MW oscillator coil (L7).
3	MW		Same as step 2.	Exactly 1650 kHz. (400 Hz, 30%, AM modulated.)	High end of dial (minimum capacity)	Same as step 1.	Adjust the MW oscillator trimmer (TC7).
4	MW	Tracking	Same as step 2.	Exactly 600 kHz (400 Hz, 30%, AM modulated.)	600 kHz	Same as step 1.	Adjust the MW antenna coil (L9). (See NOTE A.)
5	MW		Same as step 2.	Exactly 1400 kHz (400 Hz, 30%, AM modulated.)	1400 kHz	Same as step 1.	Adjust the MW antenna trimmer (TC8). (See NOTE A.)
6	MW		Repeat steps 2, 3, 4 and 5 until no further improvement can be made.				
7	LW	Band Coverage	Same as step 2.	Exactly 145 kHz. (400 Hz, 30%, AM modulated.)	Low end of dial (maximum capacity)	Same as step 1.	Adjust the LW oscillator coil (L8).
8	LW		Same as step 2.	Exactly 295 kHz. (400 Hz, 30%, AM modulated.)	High end of dial (minimum capacity)	Same as step 1.	Adjust the LW oscillator trimmer (TC9).
9	LW	Tracking	Same as step 2.	Exactly 160 kHz. (400 Hz, 30%, AM modulated.)	160 kHz	Same as step 1.	Adjust the LW antenna coil (L10).
10	LW		Same as step 2.	Exactly 260 kHz. (400 Hz, 30%, AM modulated.)	260 kHz	Same as step 1.	Adjust the LW antenna trimmer (TC10).
11	LW		Repeat steps 7, 8, 9 and 10 until no further improvement can be made.				

NOTE A

Check the alignment of the receiver antenna coil by bringing a piece of ferrite (such as a coil slug) near the antenna loop stick, then a piece of brass. If ferrite increase output, loop requires more inductance. If brass increases output, loop requires less inductance. Change loop inductance by sliding the bobbin toward the center of ferrite core to increase inductance, or away to decrease inductance.

FM ALIGNMENT CHART

Set the Band Selector switch at "FM" position.

STEP	TEST STAGE	SIGNAL GENERATOR		RECEIVER		ADJUSTMENT
		CONNECTION TO RECEIVER	INPUT SIGNAL FREQUENCY	DIAL SETTING	REMARKS	
1	IF	Connect signal generator through a 5PF capacitor to the emitter of Q2. Connect generator ground lead to the receiver chassis.	Exactly 10.7 MHz. (400 Hz, 30%, FM modulated)	Tuning gang fully closed. (maximum capacity)	Connect VTVM across the resistor (R129).	Detune T4, T5 Tune T1, T2 and T3 for maximum indication.
2	Ratio Detector	Same as step 1.	Exactly 10.7 MHz. (Unmodulated)	Same as step 1.	See NOTE B.	See NOTE B.
3	Band Coverage	Connect signal generator through a dummy, including output impedance of signal generator to the FM antenna. (Refer to Figure 20) Ground lead of generator connected to the receiver chassis.	Exactly 87 MHz, (400 Hz, 30%, FM modulated)	Tuning gang fully closed. (maximum capacity)	Adjust for maximum output speaker voice coil lugs.	Adjust the FM oscillator coil L5 & L6.
4	Band Coverage	Same as step 3.	Exactly 109 MHz. (400 Hz, 30%, FM modulated)	Tuning gang fully open. (minimum capacity)	Same as step 3.	Adjust the FM oscillator trimmer TC5.
5	Tracking	Same as step 3.	Exactly 88 MHz. (400 Hz, 30%, FM modulated)	88 MHz	Same as step 3.	Adjust the FM RF coil L2 & L3.
6	Tracking	Same as step 3.	Exactly 108 MHz. (400 Hz, 30%, FM modulated)	108 MHz	Same as step 3.	Adjust the FM RF trimmer TC6.
7		Repeat steps 3, 4, 5 and 6 until no further improvement can be made.				

NOTE B

1) Connect VTVM (0.1 volts range DC scale) across the resistor (R139, TP-3).
2) Adjust T5 for 0 volt on VTVM.
3) Change signal generator frequency 10.7 MHz + 100 kHz and −100 kHz approximately.
4) Adjust T4 for balanced peaks. Peak separation should be approximately 200 kHz.

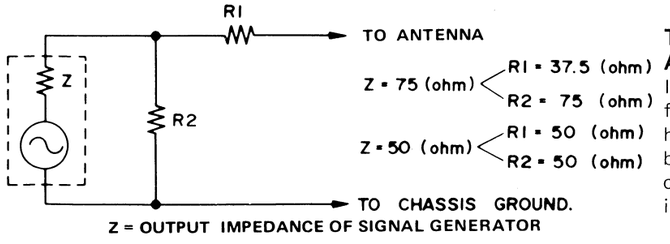
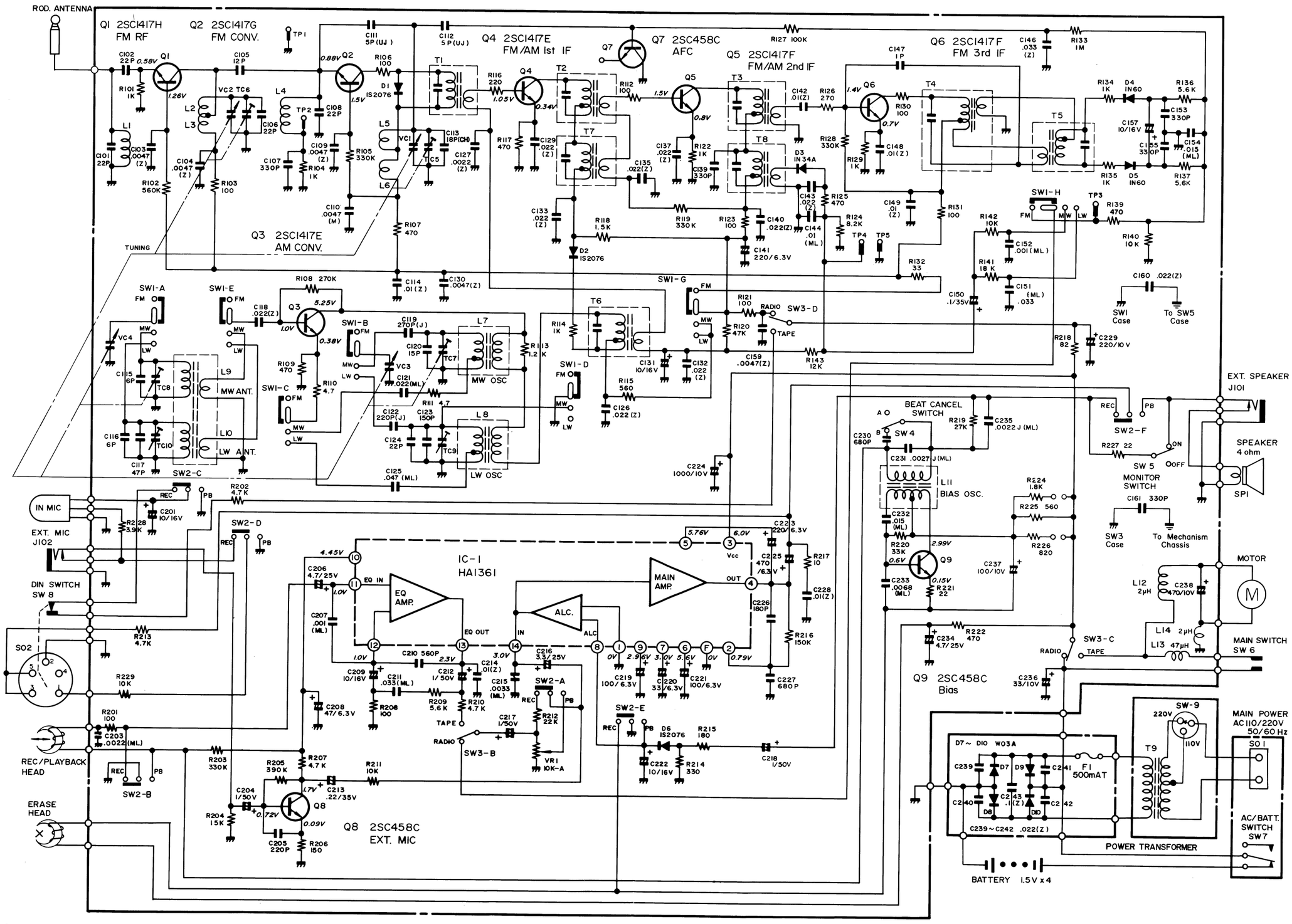


Figure 12–1 FM DUMMY

THE INSTRUCTION OF FM FREQUENCY ADJUSTMENT

In order to comply with Pfg. Nr. 358/1970, please fix the low end of dial frequency (87.5MHz) and high end of dial frequency (107.9MHz) on FM band, by adjusting oscillation coil (L5, L6) and oscillation trimmer (TC5), repectively, as illustrated in Figure 10–2.



Specifications or wiring diagrams of this model are subject to change for the improvement without prior notice .

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Figure 13 SCHEMATIC DIAGRAM (GF-1754H)

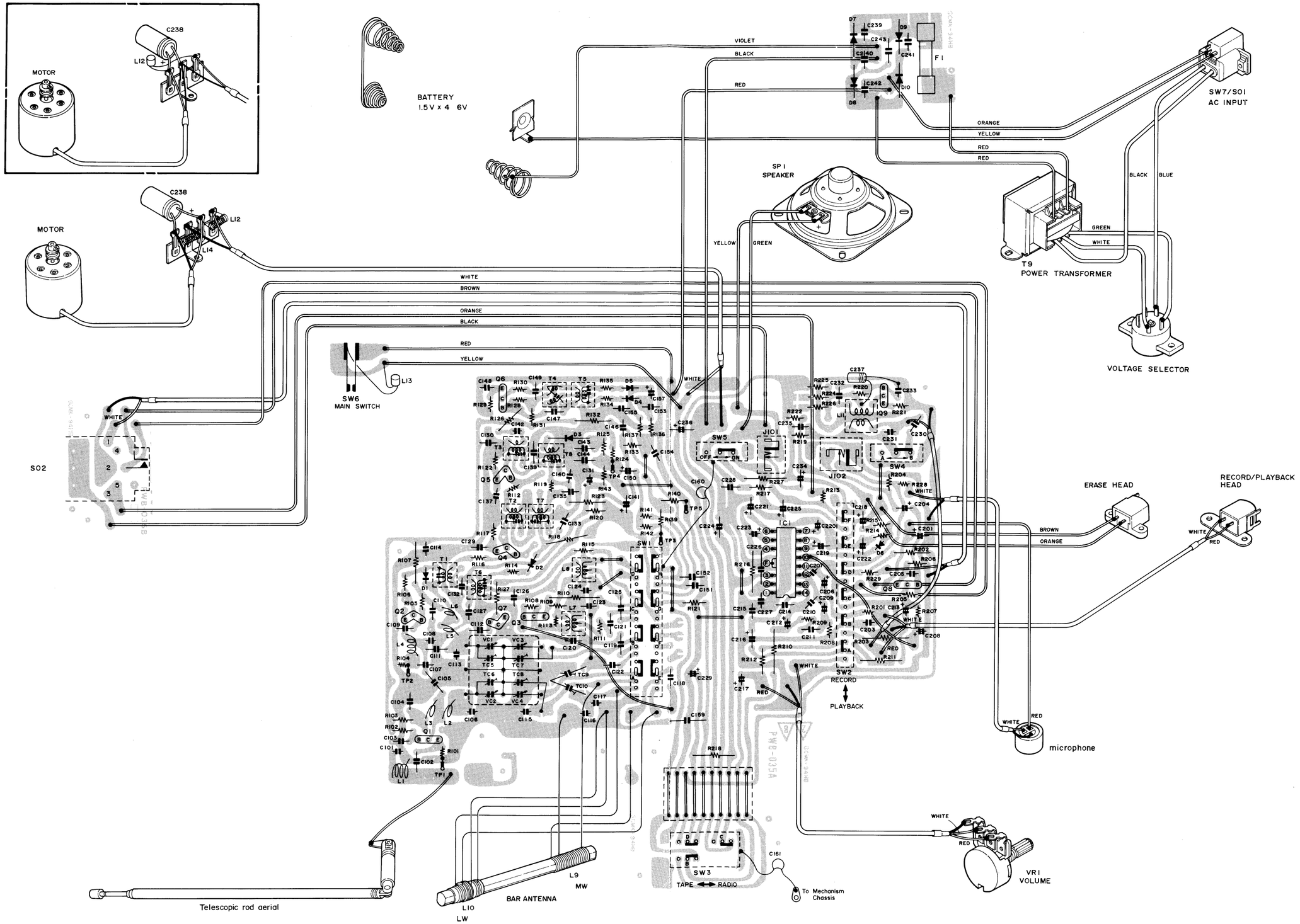
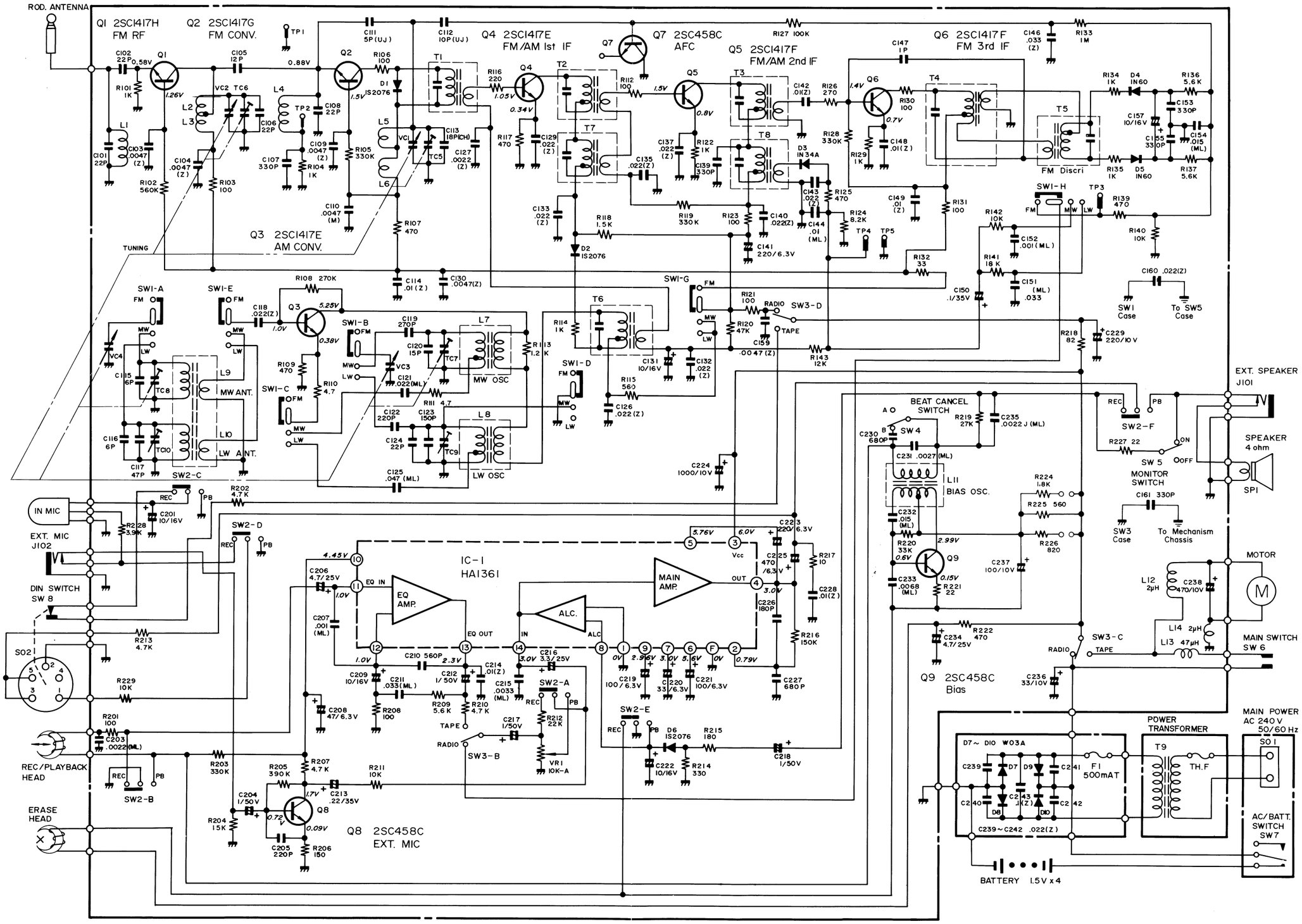


Figure 15 WIRING SIDE OF TED WIRING BOARD (GF-1754H)



Specifications of wiring diagrams of this model are subject to change for the improvement without prior notice.

Figure 17 SCHEMATIC DIAGRAM (GF-1754E)

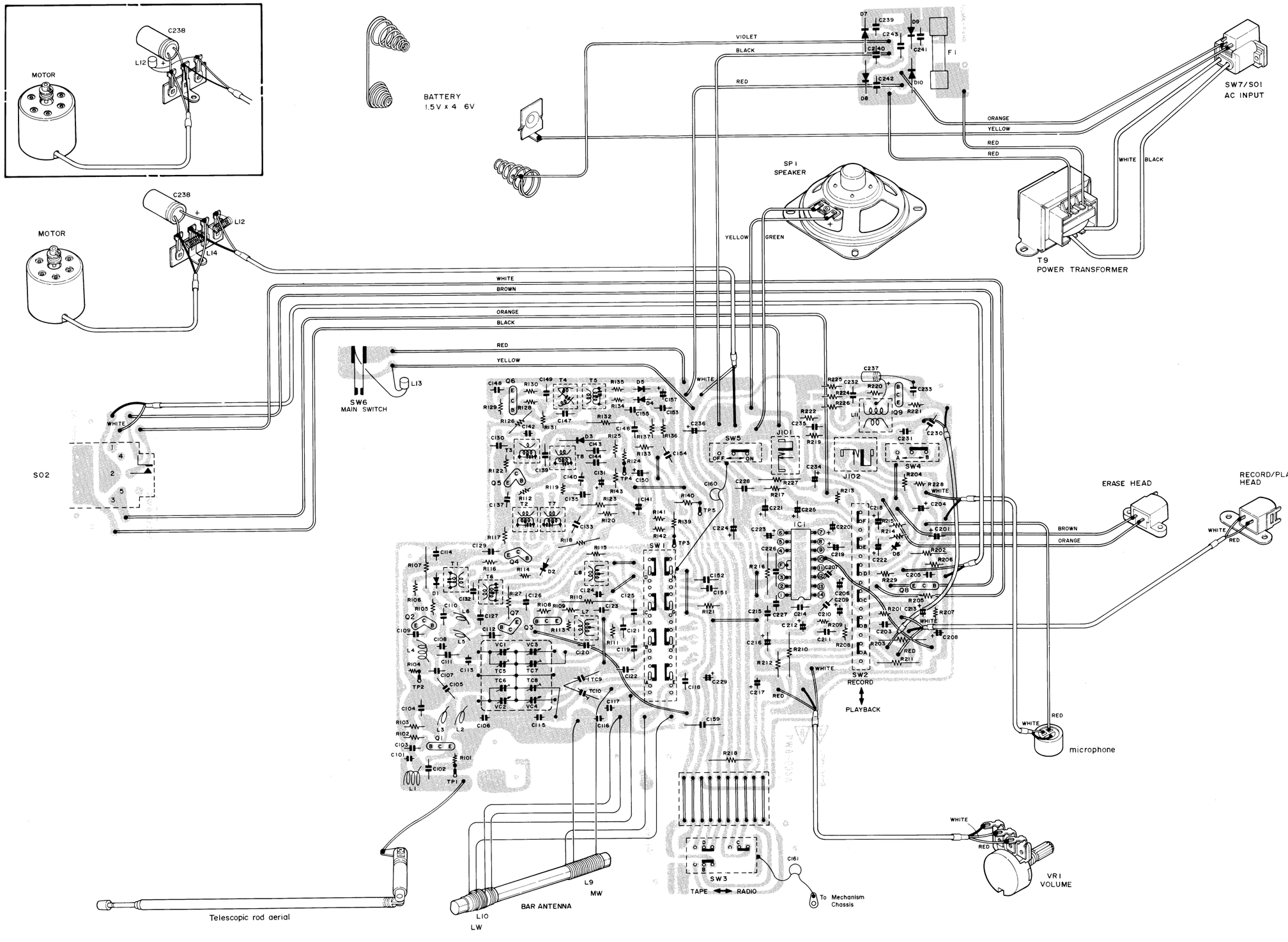


Figure 19 WIRING SIDE OF PRINTED WIRING BOARD (GF-1754E)

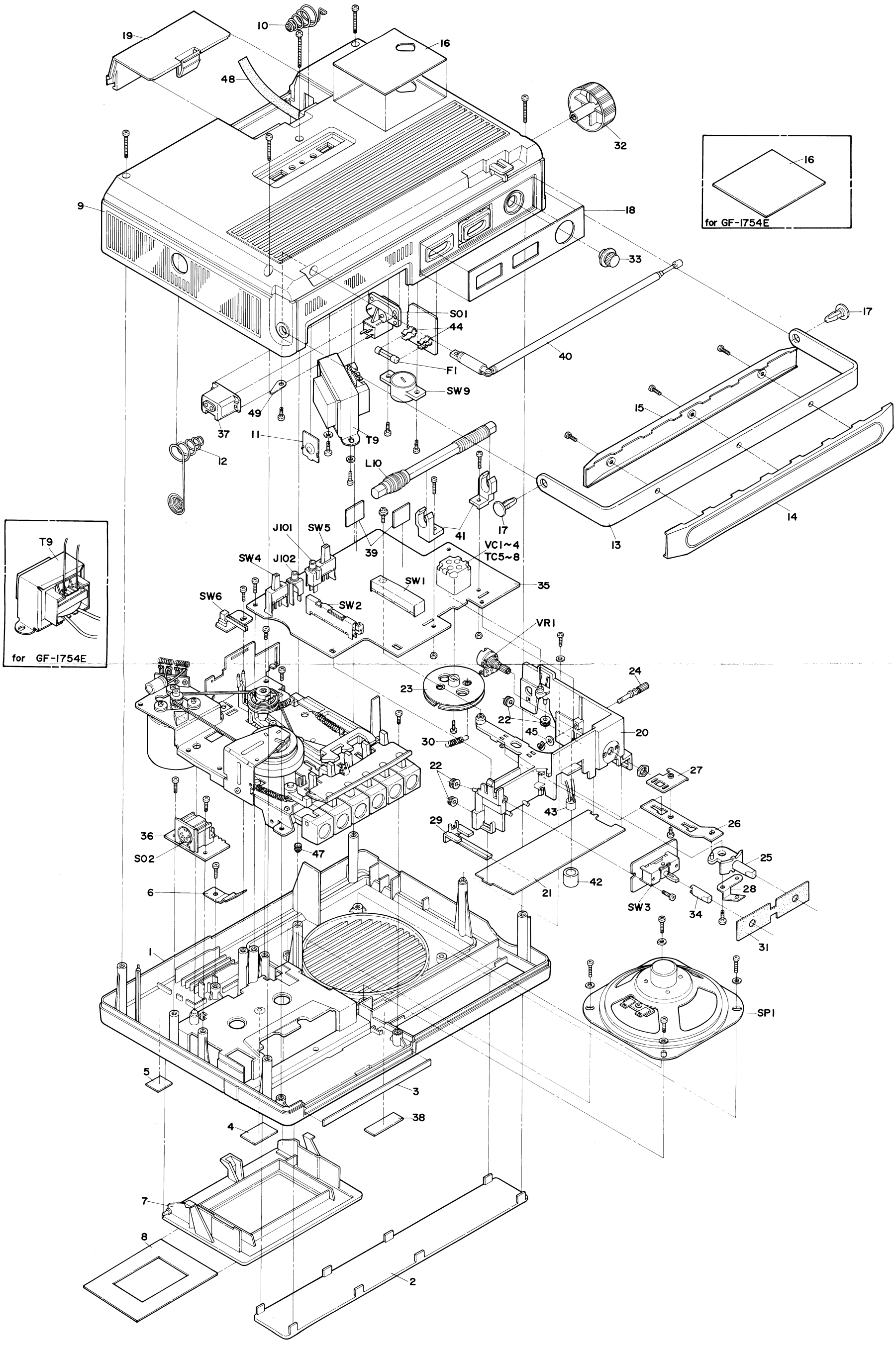


Figure 21 CABINET EXPLODED VIEW

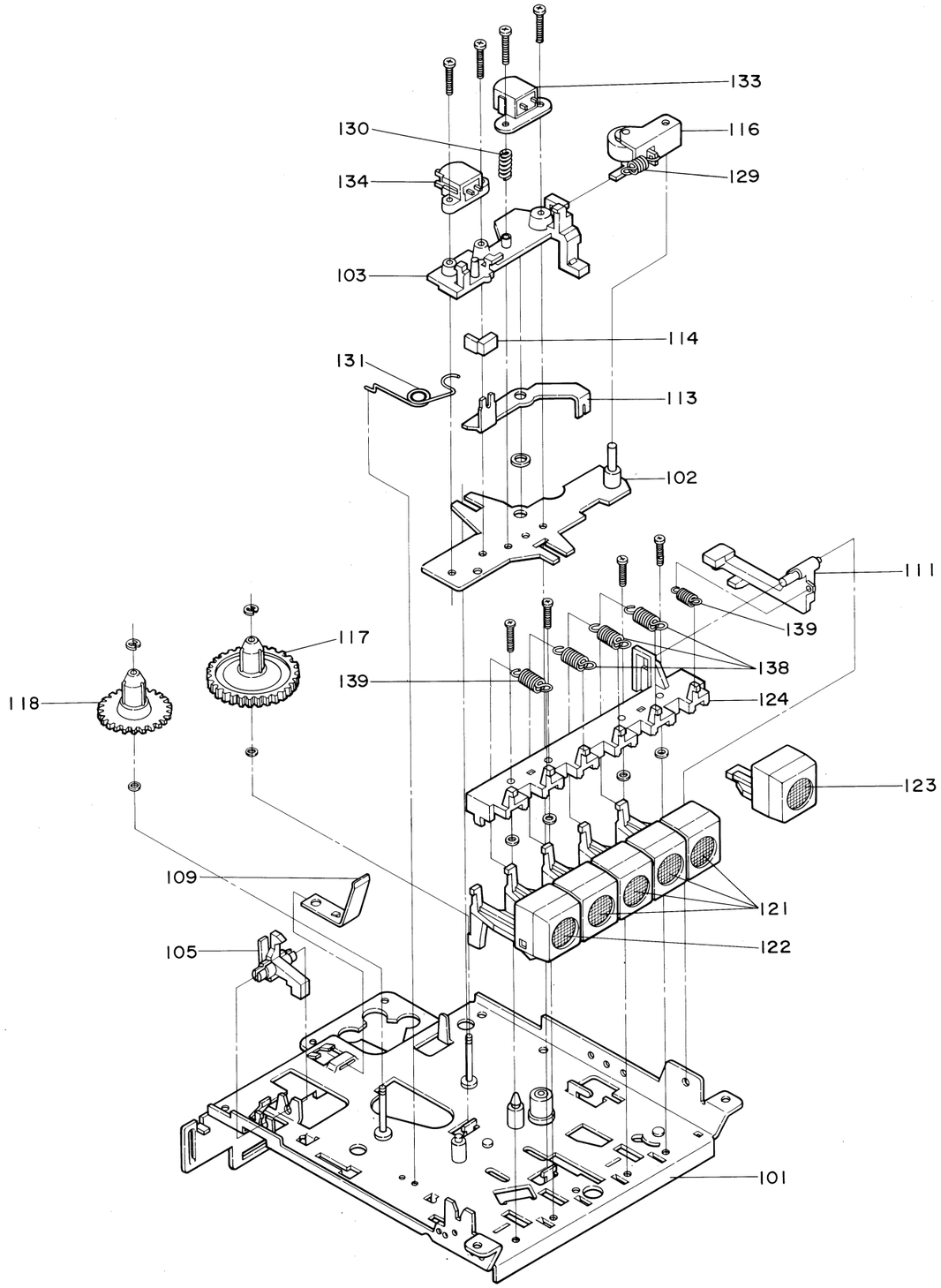


Figure 23 MECHANISM EXPLODED TOP VIEW

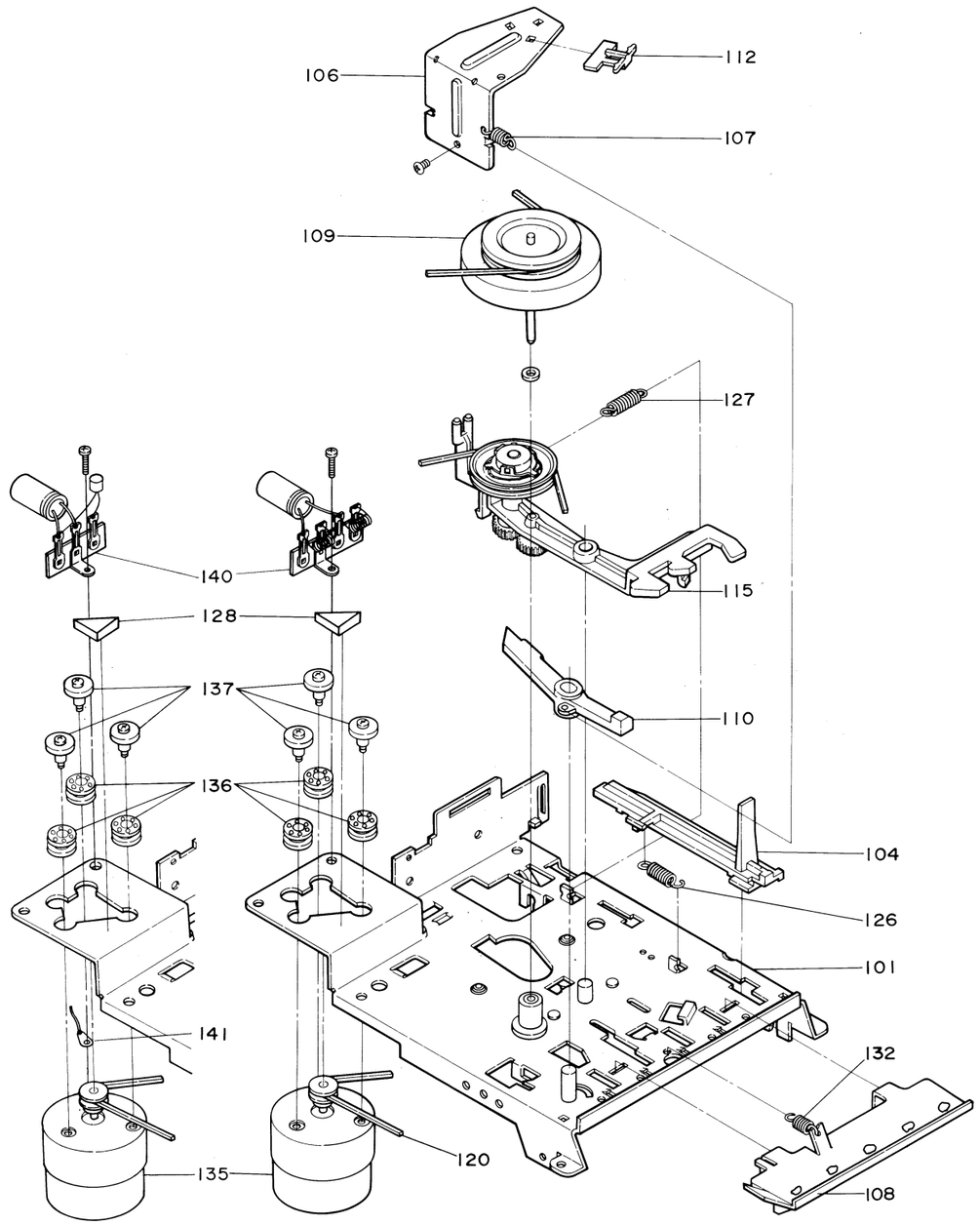


Figure 24 MECHANISM EXPLODED BOTTOM VIEW

EQUIVALENT CIRCUIT OF IC (IC1)

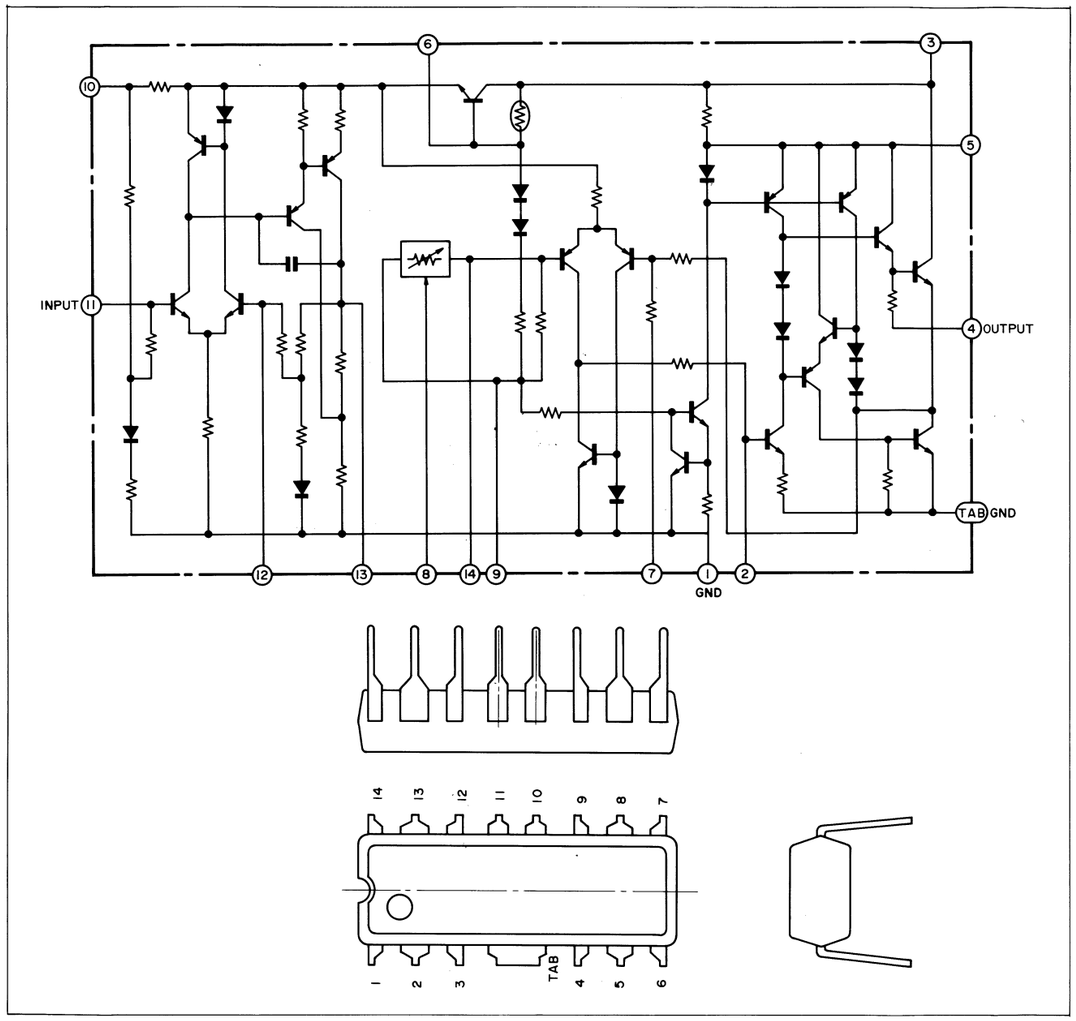


Figure 25–1

REPLACEMENT PARTS LIST

"HOW TO ORDER REPLACEMENT PARTS"

To have your order filled promptly and correctly, please furnish the following informations.

1. MODEL NUMBER
2. REF. NO.
3. PART NO.
4. DESCRIPTION

REF. NO.	PART NO.	DESCRIPTION	CODE
		IC (Integrated Circuit)	
IC1	92LIC-035	Audio (HA1361)	**
		TRANSISTORS	
Q1	92L2SC1417H	FM RF Amp. (2SC1417H)	**
Q2	92L2SC1417G	FM Converter (2SC1417G)	**
Q3	92L2SC1471E	AM Converter (2SC1417E)	**
Q4	92L2SC1417E	FM/AM 1st IF Amp. (2SC1417E)	**
Q5	92L2SC1417F	FM/AM 2nd IF Amp. (2SC1417F)	**
Q6	92L2SC1417F	FM 3rd IF Amp. (2SC1417F)	**
Q7	VS2SC458-C/-1	A.F.C. (2SC458C)	**
Q8	VS2SC458-C/-1	External Microphone Amp. (2SC458C)	**
Q9	VS2SC458-C/-1	Bias Oscillator (2SC458C)	**
		DIODES	
D1	VHD1S2076//-1	FM Overload (1S2076)	**
D2	VHD1S2076//-1	AM AGC (1S2076)	**
D3	VHD1N34A///-1	AM Detector (1N34A)	**
D4	VHD1N60-PP//G	FM Detector (1N60P)	**
D5	VHD1N60-PP//G	FM Detector (1N60P)	**
D6	VHD1S2076//-1	ALC (1S2076)	**
D7, D8, D9, D10	92LW03A	Power Rectifier (W03A)	**
		COILS	
L1	92LC0ILA-011A	FM Antenna	**
L2	92LC0ILR-035	FM RF	**
L3	92LC0ILR-035	FM RF	**
L4	92LC0ILC-011	FM IF Trap	**
L5	92LC0ILO-035	FM Oscillator	**
L6	92LC0ILO-035	FM Oscillator	**
L7	92LC0ILO-011C	MW Oscillator	**
L8	92LC0ILO-019	LW Oscillator	**
L9, L10	92LC0ILA-039	MW/LW Bar Antenna	**
L11	RCILB0368AFZZ	Bias Oscillator	AE
L12	RCILF0068AFZZ	Noise Choke, 2μH	**
L13	RCILF0014AGZZ	Shock Noise, 47μH	**
L14	RCILF0068AFZZ	Noise Choke, 2μH	**
		TRANSFORMERS	
T1	92LIFT-011A	1st FM IF	**
T2	92LIFT-011A	2nd FM IF	**
T3	92LIFT-011A	3rd FM IF	**
T4	92LIFT-011B	FM Discriminator	**
T5	92LIFT-011C	FM Discriminator	**
T6	92LIFT-011D	1st AM IF	**
T7	92LIFT-011E	2nd AM IF	**
T8	92LIFT-011F	3rd AM IF	**
T9	92LPT-019	Power Transformer (GF-1754H)	**
T9	92LPT-020	Power Transformer (GF-1754E)	**
		CONTROLS	
VR1	92LVR-035	Volume, 10K ohm (A)	**
		VARIABLE CAPACITORS AND TRIMMERS	
VC1, VC2, VC3, VC4, TC5, TC6, TC7, TC8	92LVC-011	Variable Capacitor, Tuning with Trimmers TC5: FM Oscillator Trimmer TC6: FM RF Trimmer TC7: MW Oscillator Trimmer TC8: MW Antenna Trimmer	**
TC9, TC10	92LT0-035	TC9: LW Oscillator Trimmer TC10: LW Antenna Trimmer	**
		ELECTROLYTIC CAPACITORS	
C131	VCEAAU1CW106Y	10MFD, 16V, +50 –10%	**
C141	VCEAAU0JW227Y	220MFD, 6.3V, +50 –10%	**
C150	VCSATU1VF104M	.1MFD, 35V, ±20%, Tantalum	AC
C157	VCEAAU1CW106Y	10MFD, 16V, +50 –10%	**
C201	VCEAAU1CW106Y	10MFD, 16V, +50 –10%	**
C204	VCEAAU1HW105A	1MFD, 50V, +75 –10%	**
C206	VCEAAU1EW475A	4.7MFD, 25V, +75 –10%	**
C208	VCEAAU0JW476Y	47MFD, 6.3V, +50 –10%	**
C209	VCEAAU1CW106Y	10MFD, 16V, +50 –10%	**
C212	VCEAAU1HW105A	1MFD, 50V, +75 –10%	**
C213	VCSATU1VF224M	.22MFD, 35V, ±20%, Tantalum	AC
C216	VCEAAU1EW335A	3.3MFD, 25V, +75 –10%	**
C217	VCEAAU1HW105A	1MFD, 50V, +75 –10%	**
C218	VCEAAU1HW105A	1MFD, 50V, +75 –10%,	**
C219	VCEAAU0JW107Y	100MFD, 6.3V, +50 –10%	**
C220	VCEAAU0JW336Y	33MFD, 6.3V, +50 –10%	**
C221	VCEAAU0JW107Y	100MFD, 6.3V, +50 –10%	**
C222	VCEAAU1CW106Y	10MFD, 16V, +50 –10%	**
C223	VCEAAU0JW227Y	220MFD, 6.3V, +50 –10%	**
C224	VCEAAU1AW108Y	1000MFD, 10V, +50 –10%	**

**; Price will be quoted upon receipt of order.

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
C225	VCEAAU0JW477Y	470MFD, 6.3V, +50 −10%	**
C229	VCEAAU1AW227Y	220MFD, 10V, +50 −10%	**
C234	VCEAAU1EW475A	4.7MFD, 25V, +75 −10%	**
C236	VCEAAU1AW336Y	33MFD, 10V, +50 −10%	**
C237	VCEAAU1AW107Y	100MFD, 10V, +50 −10%	**
C238	VCEAAU1AW477Y	470MFD, 10V, +50 −10%	**

CAPACITORS

(Unless otherwise specified capacitors are 50V, +80 −20%, Ceramic type.)

C101	VCCSPU1HL220J	22PFD, 50V, ±5%, Ceramic	**
C102	VCCSPU1HL220J	22PFD, 50V, ±5%, Ceramic	**
C103	VCKZPU1HF472Z	.0047MFD	**
C104	VCKZPU1HF472Z	.0047MFD	**
C105	VCCSPU1HL120K	12PFD, 50V, ±10%, Ceramic	**
C106	VCCSPU1HL220K	22PFD, 50V, ±10%, Ceramic	**
C107	VCCSPU1HL331J	330PFD, 50V, ±5%, Ceramic	**
C108	VCCSPU1HL220K	22PFD, 50V, ±10%, Ceramic	**
C109	VCKZPU1HF472Z	.0047MFD	**
C110	VCKZPU1HF472M	.0047MFD, 50V, ±20%, Ceramic	**
C111	VCCUPU1HJ5R0D	5PF (UJ), 50V, ±0.5PFD, Ceramic	**
C112	VCCUPU1HJ5R0D	5PF (UJ), 50V, ±0.5PFD, Ceramic	**
C113	VCCCPU1HH180K	18PF (CH), 50V, ±10%, Ceramic	**
C114	VCKZPU1HF103Z	.01MFD	**
C115	VCCSPU1HL6R0D	6PFD, 50V, ±0.5PFD, Ceramic	**
C116	VCCSPU1HL6R0D	6PFD, 50V, ±0.5PFD, Ceramic	**
C117	VCCSPU1HL470K	47PFD, 50V, ±10%, Ceramic	**
C118	VCKZPU1HF223Z	.022MFD	**
C119	VCCSPU1HL271J	270PFD, 50V, ±5%, Ceramic	**
C120	VCCSPU1HL150K	15PFD, 50V, ±10%, Ceramic	**
C121	VCQYKU1HM223M	.022MFD, 50V, ±20%, Mylar	**
C122	VCCSPU1HL221J	220PFD, 50V, ±5%, Ceramic	**
C123	VCCSPU1HL151J	150PFD, 50V, ±5%, Ceramic	**
C124	VCCSPU1HL220K	22PFD, 50V, ±10%, Ceramic	**
C125	VCQYKU1HM473M	.047MFD, 50V, ±20%, Mylar	**
C126	VCKZPU1HF223Z	.022MFD	**
C127	VCKZPU1HF222Z	.0022MFD	**
C129	VCKZPU1HF223Z	.022MFD	**
C130	VCKZPU1HF472Z	.0047MFD	**
C132	VCKZPU1HF223Z	.022MFD	**
C133	VCKZPU1HF223Z	.022MFD	
C135	VCKZPU1HF223Z	.022MFD	**
C137	VCKZPU1HF223Z	.022MFD	**
C139	VCCSPU1HL331K	330PFD, 50V, ±10%, Ceramic	**
C140	VCKZPU1HF223Z	.022MFD	**
C142	VCKZPU1HF103Z	.01MFD	**
C143	VCKZPU1HF223Z	.022MFD	**
C144	VCQYKU1HM103M	.01MFD, 50V, ±20%, Mylar	**
C146	VCKZPU1HF333Z	.033MFD	**
C147	VCCSPU1HL1R0C	1PFD, 50V, ±0.5PFD, Ceramic	**
C148	VCKZPU1HF103Z	.01MFD	**
C149	VCKZPU1HF103Z	.01MFD	**
C151	VCQYKU1HM333M	.033MFD, 50V, ±20%, Mylar	**
C152	VCQYKU1HM102M	.001MFD, 50V, ±20%, Mylar	**
C153	VCCSPU1HL331K	330PFD, 50V, ±10%, Ceramic	**
C154	VCQYKU1HM153M	.015MFD, 50V, ±20%, Mylar	**
C155	VCCSPU1HL331K	330PFD, 50V, ±10%, Ceramic	**
C159	VCKZPU1HF472Z	.0047MFD	**
C160	VCKZPU1HF223Z	.022MFD	
C161	VCCSPU1HL331K	330PFD, 50V, ±10%, Ceramic	
C203	VCQYKU1HM222M	.0022MFD, 50V, ±20%, Mylar	**
C205	VCCSPU1HL221K	220PFD, 50V, ±10%, Ceramic	**
C207	VCQYKU1HM102M	.001MFD, 50V, ±20%, Mylar	**
C210	VCCSPU1HL561K	560PFD, 50V, ±10%, Ceramic	**
C211	VCQYKU1HM333K	.033MFD, 50V, ±10%, Mylar	**
C214	VCKZPU1HF103Z	.01MFD	**
C215	VCQYKU1HM332M	.0033MFD, 50V, ±20%, Mylar	**
C226	VCCSPU1HL181K	180PFD, 50V, ±10%, Ceramic	**
C227	VCCSPU1HL681K	680PFD, 50V, ±10%, Ceramic	**
C228	VCKZPU1HF103Z	.01MFD	**
C230	VCCSPU1HL681J	680PFD, 50V, ±5%, Ceramic	**
C231	VCQYKU1HM272M	.0027MFD, 50V, ±20%, Mylar	**
C232	VCQYKU1HM153K	.015MFD, 50V, ±10%, Mylar	**
C233	VCQYKU1HM682M	.0068MFD, 50V, ±20%, Mylar	**
C235	VCQYKU1HM222J	.0022MFD, 50V, ±5%, Mylar	**
C239, C240, C241, C242	VCKZPU1HF223Z	.022MFD	**
C243	VCKZPU1HF104Z	.1MFD	**

RESISTORS

(Unless otherwise specified resistors are 1/4W, ±10%, Carbon type.)

R101	VRD-ST2EY102K	1K ohm	**
R102	VRD-SU2EY564K	560K ohm	**
R103	VRD-SU2EY101K	100 ohm	**
R104	VRD-ST2EY102K	1K ohm	**
R105	VRD-SU2EY334K	330K ohm	**
R106	VRD-SU2EY101K	100 ohm	**
R107	VRD-ST2EY471K	470 ohm	**
R108	VRD-SU2EY274K	270K ohm	**
R109	VRD-SU2EY471K	470 ohm	**
R110	VRD-ST2EY4R7K	4.7 ohm	**
R111	VRD-SU2EY4R7K	4.7 ohm	**
R112	VRD-SU2EY101K	100 ohm	**
R113	VRD-SU2EY122K	1.2K ohm	**
R114	VRD-SU2EY102K	1K ohm	**
R115	VRD-SU2EY561K	560 ohm	**
R116	VRD-SU2EY221K	220 ohm	**
R117	VRD-SU2EY471K	470 ohm	**
R118	VRD-SU2EY152K	1.5K ohm	**
R119	VRD-SU2EY334K	330K ohm	**
R120	VRD-SU2EY473K	47K ohm	**
R121	VRD-SU2EY101K	100 ohm	**
R122	VRD-SU2EY102K	1K ohm	**
R123	VRD-SU2EY101K	100 ohm	**
R124	VRD-ST2EY822K	8.2K ohm	**
R125	VRD-SU2EY471K	470 ohm	**
R126	VRD-SU2EY271K	270 ohm	**
R127	VRD-SU2EY104K	100K ohm	**
R128	VRD-SU2EY334K	330K ohm	**
R129	VRD-SU2EY102K	1K ohm	**
R130	VRD-SU2EY101K	100 ohm	**
R131	VRD-SU2EY101K	100 ohm	**
R132	VRD-SU2EY330K	33 ohm	**
R133	VRD-SU2EY105K	1 Meg ohm	**
R134	VRD-SU2EY102K	1K ohm	**
R135	VRD-SU2EY102K	1K ohm	**
R136	VRD-SU2EY562K	5.6K ohm	**
R137	VRD-SU2EY562K	5.6K ohm	**
R139	VRD-ST2EY471K	470 ohm	**
R140	VRD-ST2EY103K	10K ohm	**
R141	VRD-SU2EY183K	18K ohm	**

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
R142	VRD-SU2EY103K	10K ohm	**
R143	VRD-SU2EY123K	12K ohm	**
R201	VRD-SU2EY101K	100 ohm	**
R202	VRD-SU2EY472K	4.7K ohm	**
R203	VRD-ST2EY334K	330K ohm	**
R204	VRD-SU2EY153K	15K ohm	**
R205	VRD-SU2EY394K	390K ohm	**
R206	VRD-SU2EY151K	150 ohm	**
R207	VRD-SU2EY472K	4.7K ohm	**
R208	VRD-SU2EY101K	100 ohm	**
R209	VRD-SU2EY562K	5.6K ohm	**
R210	VRD-ST2EY472K	4.7K ohm	**
R211	VRD-ST2EY103K	10K ohm	**
R212	VRD-SU2EY223K	22K ohm	**
R213	VRD-SU2EY472K	4.7K ohm	**
R214	VRD-SU2EY331K	330 ohm	**
R215	VRD-SU2EY181K	180 ohm	**
R216	VRD-ST2EY154K	150K ohm	**
R217	VRD-SU2EY100K	10 ohm	**
R218	VRD-ST2EY820K	82 ohm	**
R219	VRD-SU2EY273K	27K ohm	**
R220	VRD-SU2EY333K	33K ohm	**
R221	VRD-SU2EY220K	22 ohm	**
R222	VRD-SU2EY471K	470 ohm	**
R224	VRD-SU2EY182K	1.8K ohm	**
R225	VRD-SU2EY561K	560 ohm	**
R226	VRD-SU2EY821K	820 ohm	**
R227	VRD-ST2EY220K	22 ohm	**
R228	VRD-SU2EY392K	3.9K ohm	**
R229	VRD-SU2EY103K	10K ohm	**

PICTORIAL PARTS

1	92LCAB035A	Cabinet, Front	—
2	92LWIND035	Window, Dial Scale	—
3	92LSHEET035	Mechanism Indication Sheet	—
4	92LMIRR012	Decoration Sheet, Cassette Compartment	—
5	92LPANEL012B	Indication Metal, SHARP	—
6	MSPRP0183AFFJ	Spring, Cassette Holder Open	AB
7	92LC-HOLD035	Cover, Cassette Compartment	—
8	92LPANEL035A	Decoration Panel, Cassette Holder	—
9	92LCAB035B	Cabinet, Back	—
10	MSPRC0126AFFN	Battery Spring, Negative Side	AB
11	92LBTML025	Battery Terminal, Positive Side	—
12	MSPRC0157AFFN	Battery Spring	AC
13	92LHNDL035	Handle	—
14	92LGRIP035A	Grip, Handle	—
15	92LGRIP035B	Grip, Handle	—
16	92LSPEC035	Indication Metal, Model Spec. (GF-1754E)	—
16	92LSPEC044	Indication Metal, Model Spec. (GF-1754H)	—
17	LX-LZ0061AFSA	Retainer, Handle	—
18	92LPANEL035B	Control Panel	—
19	92LLID035	Lid, Battery Compartment	—
20	92LSCHASIS035	Chassis, Switches Retaining	—
21	92LDIALP035	Dial Back Plate	—
22	92LROLL009	Dial Cord Pulley	—
23	NDRM-0040AFZZ	Drum, Dial Cord	AB
24	92LSHAFT035A	Drive Shaft, Dial Cord	—
25	92LLEV035A	Lever, Band Switch with Knob	—
26	92LLEV035B	Lever, Band Selector	—

REF. NO.	PART NO.	DESCRIPTION	CODE
27	92LSUPT035	Bracket, Band Selector Switch	—
28	MSPRP0184AFFJ	Plate Spring, Band Selector Switch	AB
29	92LPINT012	Pointer	—
30	MSPRC0011AFZZ	Spring, Dial Cord	AA
31	92LFELT035	Felt, Mode Switch and Band Selector	—
32	92LKNOB009A	Knob, Tuning	—
33	92LKNOB009B	Knob, Volume	—
34	92LKNOB009C	Knob, Mode	—
35	92LPWB035A	P.W. Board, Main	—
36	92LPWB035B	P.W. Board, DIN Socket	—
37	PCOVW1102AFZZ	Cover, AC Socket	AC
38	92LPANEL035C	Decoration Panel	—
39	92LSHLD035	Shield Plate, Tuner	—
40	92LRANT035	Rod Antenna	—
41	92LA-HOLD009A	Holder, Bar Antenna	—
42	LHLDZ8064AFZZ	Holder, Built-in Microphone	AB
43	RMICC0068AFZZ	Built-in Microphone with Lead	**
44	QFSHD1001AGZZ	Fuse Holder	AB
45	XWHNZ41-05080	Spacer, Dial Cord Drive Shaft	—
47	LBOSD0050AFFW	Boss, Insert (GF-1754E)	—
48	92LBAND009	Ribbon, Battery Compartment	—
49	QHWS-3001AGFN	Lug, Terminal	—
101	LCHSM0278AFZZ	Chassis, Mechanism	—
102	LCHSS0125AFZZ	Chassis, Sub	—
103	LDAIH0053AFZZ	Block, Head Mounting	**
104	MLEVP0103AFZZ	Lever, Record Action	**
105	MLEVP0098AFZZ	Lever, Erase Proof	**
106	LANGF0408AFFW	Bracket, Flywheel	**
107	MSPRT0503AFFJ	Spring, Auto Stop Lever	**
108	MLEVF0791AFZZ	Lock Plate Assembly	**
109	MSPRP0180AFFW	Plate Spring, Cassette	**
110	MLEVP0099AFZZ	Lever, Auto Stop	**
111	MLEVP0105AFZZ	Lever, Eject	AB
112	LPLTP0054AFZZ	Plate, Thrust Adjustment	**
113	MLEVF0762AFFW	Lever, Tape Contact	**
114	MLEVP0082AFZZ	Contact, Tape	AA
115	NROLW0007AFZZ	Slip Roller Assembly	AK
116	NROLY0015AFZZ	Pinch Roller Assembly	**
117	NDAIR0125AFSA	Turntable, Take-up	AB
118	NDAIR0126AFSA	Turntable, Supply	AB
119	NFLYC0067AFZZ	Flywheel	**
120	NBLTK0124AFZZ	Belt, Drive	**
121	JKNBZ0138AFZZ	Function Button Assembly	AD
122	JKNBZ0139AFZZ	Record Button Assembly	AD
123	JKNBZ0140AFZZ	Eject Button Assembly	AD
124	LANGK0192AFZZ	Button Guide Block	AD
126	MSPRT0505AFFJ	Spring, Record Lever	**
127	MSPRT0504AFFJ	Spring, Slip Roller	**
128	PCUCS0078AFZZ	Cushion Rubber	AA
129	MSPRT0500AFFJ	Spring, Pinch Roller	**
130	MSPRC0134AFFJ	Spring, Head Azimuth	AA
131	MSPRD0172AFFJ	Spring, Sub-chassis Returning	**
132	MSPRT0502AFFJ	Spring, Lock Plate	**
133	RHEDG0053AFZZ	Head, Record/Playback	AK
134	RHEDA0055AFZZ	Head, Erase	AF
135	RMOTM0078AFZZ	Motor, 6V DC	AV
136	LBSHS0001AG00	Cushion,Rubber, Motor	AA
137	LX-BZ0223AFFD	Screw, Motor Retaining	AA
138	MSPRT0528AFFJ	Spring, Fast-forward/Play/ Stop Button	**
139	MSPRT0529AFFJ	Spring, Rewind Eject Button	**
140	QLUGL0302SEZZ	Terminal Strip, 3-lug	—
141	QHWS-3001AGFN	Lug Terminal, Ground	—

PARTS LIST

REF. NO.	PART NO.	DESCRIPTION	CODE
		MISCELLANEOUS	
SW1 (A~H)	QSW-S0216AFZZ	Switch, Band Selector	AK
SW2 (A~F)	QSW-S0204AFZZ	Switch, Record/Playback	AF
SW3 (A~D)	QSW-B0084AFZZ	Switch, Radio/Tape	AG
SW4	QSW-S0217AFZZ	Switch, RIF	AE
SW5	QSW-S0217AFZZ	Switch, Monitor ON/OFF	AE
SW6	QSW-F0121AFZZ	Switch, Main (Motor)	AE
SW9	QSOCE0555AFZZ	Switch, Voltage Selector (GF-1754H)	AG
F1	QFS-C501CAGNI	Fuse, 500mAT	**
J101	QJAKA0006AFZZ	Jack, Speaker	**
J102	QJAKA0006AFZZ	Jack, External Microphone	**
SO1	QSOCA0255AFZZ	Socket, AC Input	AF
SO2	QSOCD2554AFZZ	Socket, DIN	AF
SP1	92LSP035	Speaker, 4 ohm	–
	QACCK0050AFZZ	Mains Supply Cord (GF-1754H)	AM
	QACCB0003AG0V	Mains Supply Cord (GF-1754E)	AL

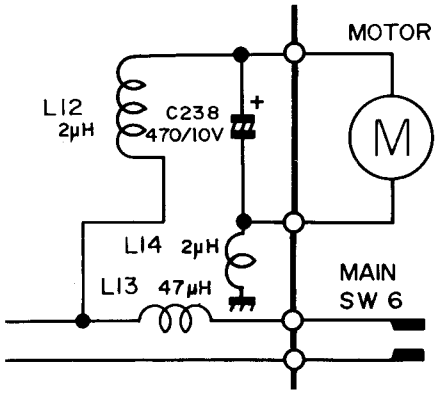
REF. NO.	PART NO.	DESCRIPTION	CODE
	RTPEK0033AGZZ	Cassette Tape (GF-1754H)	AM
	QTIPZ0062AFZZ	Tip	AA
	QCNW-0299AFZZ	Connecting Cord	–
	QLUGP0111CEFW	Lug	–
	QPLGZ0152AFZZ	Plug, Erasing	–
	TCAUH0056AGZZ	Caution Sheet, Mains Supply Cord (For Users in UK) (GF-1754E)	–
	TCTLE0001AGZZ	Catalog (GF-1754E)	–
	TGANE1117AFZZ	Warranty Cord (GF-1754E)	–
	TGANG1039AFZZ	Warranty Cord (GF-1754H)	–
	TLABS0004AGZZ	Label, SEV Safety Standard (GF-1754H)	–
	TLABS0016AGZZ	Label, SEMKO/NEMKO Safety Standard (GF-1754H)	–
	TLABS0063AGZZ	Label, DEMKO Safety Standard (GF-1754H)	–

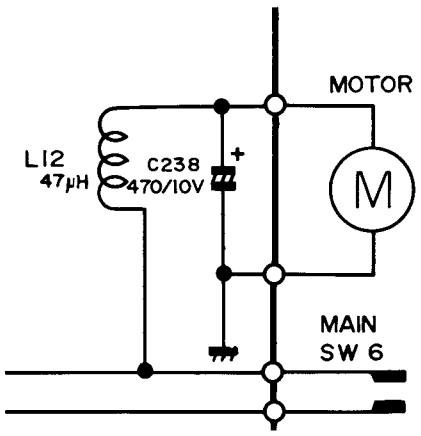
TECHNICAL INFORMATION

The Motor (135) used in this model is changed as follows.

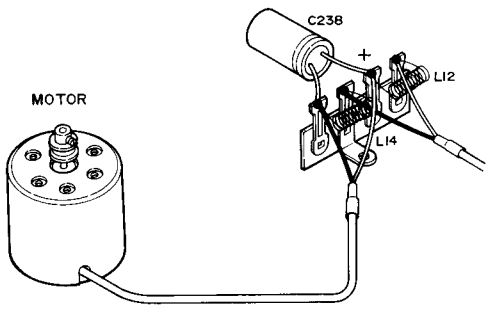
REF. NO.	OLD	NEW
135	RMOTM0078AFZZ	RMOTM0081AFZZ
140	QLUGL0302SEZZ (3-Terminal, 1-Ground)	QLUGL0201SEZZ (2-Terminal, 1-Ground)
L12	RCILF0068AFZZ (2μH)	RCILF0014AGZZ (47μH)
L14	RCILF0068AFZZ (2μH)	Not Used.
141	Not Used.	QHWS-3001AGFN (GROUND)

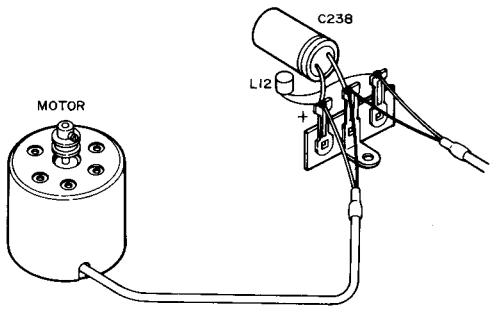
SCHEMATIC DIAGRAM





WIRING CONNECTION





A7807-3.5MNK
Printed in Japan